

THE FIRST NAME IN HIGH FIDELITY

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SPECIFICATIONS

SPECIFICALI	UN5
Power Source	100/000\/(50/00\/-\
ACDC	
Output Power	
Power Consumption	
Input Sensitivity	
MIC	0.3mV
LINE IN	
Output Level and Impedance	······································
LINE OUT	400mV
Ext. Speaker	
Headphone	
Frequency Range	
LW	150 ~ 350kHz
MW	
SW	
FM	88 ~ 108MHz
Compact Cassette Section	
Current Consumption (at Vol. min.)	
Record mode	300mA
Playback mode	
Fast Forward mode	
Rewind mode	
Recording System	
Erasing System	
Oscillation Frequency	
Tape Speed	
Wow & Flutter	
Fast Forward Time	
Rewind Time	120 sec. (with 6-60 cassette tape)
Fe2O3	80Hz ~ 10kHz
CrO2	
Metal	
Erase Ratio (Overall)	
Fe2O3	60d B
Signal to Noise Ratio	
Fe2O3	
Crosstalk (with Fe2O3)	50.8
Track to Track	
Channel Separation (with Fe2O3)	
Harmonic Distortion (K3)	
Micro Cassette Section	600d5\$
Current Consumption (at Vol. min.)	
Record mode	230m A
Playback mode	
Fast Forward mode	
Rewind mode	
Recording System	
Erasing System	
Oscillation Frequency	
Tape Speed	
1.2cm	
2.4cm	
Wow & Flutter	
Fast Forward Time	
Rewind Time	150 sec. (with MC-60 micro cassette tape)
Frequency Response (Overall)	
Fe2O3	
Metal	80Hz ~ 8kH∎z
Erase Ratio (Overall) Fe2O3	E7.1 D
Signal to Noise Ratio	
Fe2O3	27∤ 🕰
Crosstalk (with Fe2O3)	3/p
Track to Track	504B
Channel Separation (with Fe2O3)	
Harmonic Distortion (K3)	
Hum & Noise (at Vol./Tone min.)	60 d } s
Cassifications subject to show	

DISASSEMBLY INSTRUCTIONS

GENERAL REMARKS

- Before disassembling the unit, spread soft cloth or a rubber mat on the work bench to avoid scratches and grease stains.
- Do not spread anything which is likely to cause static electricity because transistors and ICs are easily broken by it.
- Correctly reassemble the unit, noting the kinds of fastening screws and the lead arrangement. Please refer to "Circuit Diagrams" and "Exploded Views".

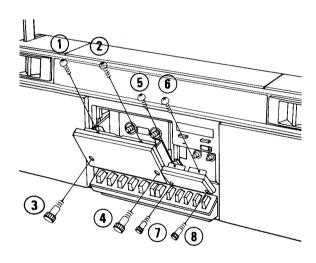
CASSETTE COMPARTMENT LID REMOVAL

- 1. Open the cassette compartment lid by pressing the Stop/E-ject button and take output the cassette tape.
- 2. Remove the four screws (1 \sim 4) fastening the compact cassette side and the four screws (5 \sim 8) fastening the microcassette side.

NOTE:

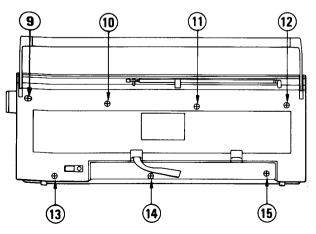
Perform the azimuth adjustment after removing the cassette compartment lid.

3. Reassemble in reverse order.



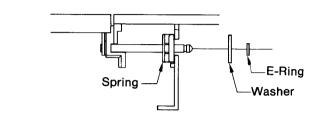
CABINET BOTTOM REMOVAL

- 1. Turn over the unit and remove the battery compartment lid.
- 2. Remove the seven screws (9 \sim 15) fastening the Cabinet Bottom and detach the Cabinet Bottom by lifting it.
- Pull out the two battery connectors from the Amplifier P.C.Board.
- 4. Reassemble in reverse order.

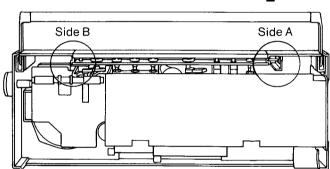


TOP LID REMOVAL

- 1. Remove the Cabient Bottom by following its removal instruction and then, the E-Ring, the Washer, and the Spring as illustrated.
- 2. Remove the Top Lid by lifting out Side B from the Cabinet Top.
- Reassemble in reverse order.

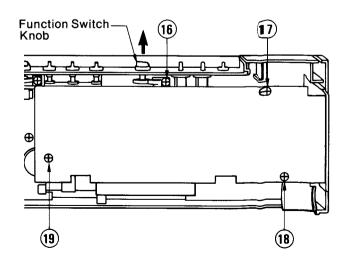






AMPLIFIER P.C.BOARD REMOVAL

- Remove the Cabient Bottom and the Top Lid by following their removal instructions. Set the Function Switch Knob to "LINE" and pull out the knob.
- 2. Remove the four screws (16 \sim 19) fastening the Amplifier P.C.Board and pull out all connectors connected to the Amplifier P.C.Board. Then, remove the P.C.Board by lifting it, noting the lead wires.
- 3. Reassemble in reverse order.



DISASSEMBLY INSTRUCTIONS (Continued)

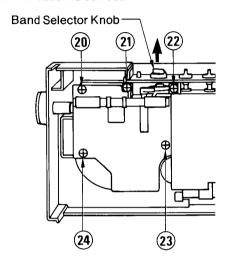
RADIO TUNER P.C.BOARD REMOVAL

- 1. Remove the Cabinet and the Top Lid by following their removal instructions and pull out the Band Selector Knob.
- 2. Remove the five screws (20 \sim 24) fastening the Radio Tuner P.C.Board and then, the P.C.Board by lifting it.

NOTE:

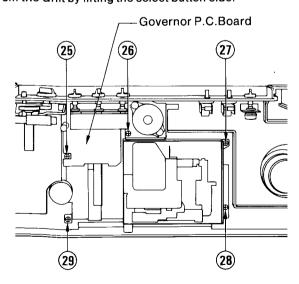
Do not move th Band Selector Knob after the Radio Tuner P.C.Board is removed.

When mounting the Radio Tuner P.C.Board, insert the shaft of the variable condenser into the drum hole and check that the dial indication is correct.



MECHANISM CHASSIS REMOVAL

- Detach the compact cassette and microcassette compartment lids by following the removal instructions. Then, remove the Cabient Bottom, the Top Lid, and the Amplifier P.C.Board.
- 2. Pull out the two connectors from the Governor P.C.Board on the microcassette side.
- 3. Remove the five red screws (25 \sim 29) fasteing the Mechanism Chassis. Then, separate the Mechanism Chassis from the unit by lifting the select button side.

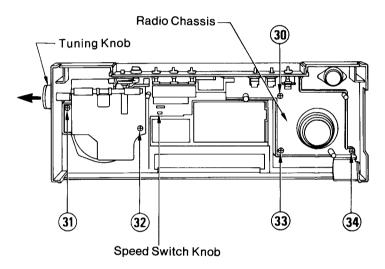


NOTE:

- * Both compact cassette and microcassette mechanism chassis can be removed together.
- * When removing or remounting the Mechanism Chassis, note the leads connected to the Amplifier P.C.Board.
- 4. After the Mechanism Chassis is removed, be sure to pull out the Speed Switch Knob.
 - Remount this knob in the final process of the assembly.
- 5. Reassemble in reverse order.

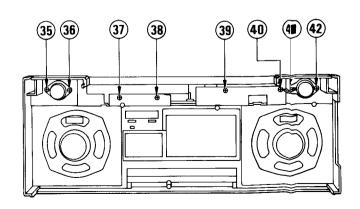
RADIO CHASSIS REMOVAL

- 1. Remove the Mechanism Chassis from the unit by following its removal instructions and pull out the Tuning Knob.
- 2. Remove the five screws (30 \sim 34) fastening the Radio Chassis and then, detach the Radio Chassis from the unit.
- 3. Reassemble in reverse order.



WINDOW PANEL REMOVAL

- The LED Indicator P.C.Board and the right and left built-in spseakers are mounted on the Window Panel.
- 2. Remove the Radio Chassis from the unit and then, the eight screws (35 \sim 42) fastening the Window Panel.
- The speaker grille on the tweeter will be detached when the above fastening screws are removed.
- 4. Reassemble in reverse order.



MECHANICAL ADJUSTMENTS

COMPACT CASSETTE MECHANISM ADJUSTMENT

GENERAL REMARKS

- When a repair or an adjustment work on the mechanism is performed, remove the Mechanism Chassis from the unit and supply 9V DC from the constant-voltage regulator to the source terminals on the Amplifier P.C.Board.
- 2. Before and after the mechanism adjustment, clean the tape contacting surfaces with a soft cloth soaked in alcohol.
- The belts must be kept clean while the adjustments are performed.
- Slicone grease (Example: SHIN-ETSU SILICONE KS-64) is applied to the Drive Belt and the Take-up Belt on the compact cassette side to protect them from abrasion.

If necessary, apply a little amount of silicone grease to each groove of the Flywheel and Friction Assemblies.

Then, rotate the motor, so that the grease flows into the belt.

- * If silicone grease other than the specified one or its equivalent is used, the melting of the belt may be caused.
- * Silicone grease is not applied to the Replacement Belts.
- Grease or oil should not stick to the ASO belt. If the belt is stained with grease or oil, wipe it clean with benzine.

EQUPMENT REQUIRED

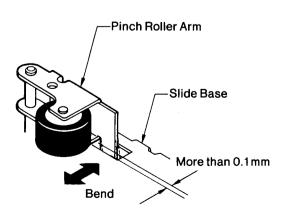
- * Cassette-type Torquemeter
- * Microcassette-type Torquemeter
- Plus Screwdriver (for 1.7mm, 2.6mm, and 3mm)
- * A Pair of Tweezers
- * Paint or Glue

PINCH ROLLER ADJUSTMENT

- While pressing the PLAY button slowly, check to see that the Take-up Reel rotates before the Pinch Roller starts rotating.
- Set the unit in the playback mode and check to see that the clearance between the Pinch Roller Arm and the Slide Base is more than 0.1 mm.
- If necessary, adjust the clearance by bending the Pinch Roller Arm as illustrated.

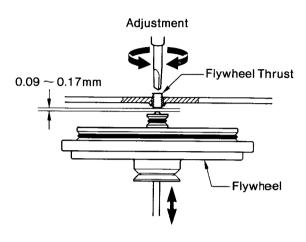
Do not excessively bend it.

* If the Pinch Roller has a defective rubber surface, replace it with a new one.



FLYWHEEL THRUST ADJUSTMENT

Check to see that the clearance between the Flywheel Thrust and the Flywheel is 0.09 \sim 0.17mm with the Chassis upside down as illustrated. If necessary, adjust the clearance by the following procedure.



1. While moving the Capstan up and down, slowly turn the Flywheel Thrust clockwise to obtain the clearance of "0" (zero) between the Thrust and the Flywheel.

NOTE:

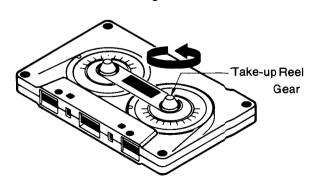
Do not turn the Flywheel Thrust forcibly.

- 2. Turn the Thrust conter-clockwise by 45° ~ 90° from the position and check the clearance.
- After the adjustment, secure the Flywheel Thrust with paint or glue.

TAKE-UP TORQUE ADJUSTMENT

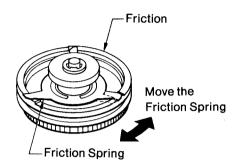
1. Insert the cassette-type torquemeter into the unit and measure the torque of the Take-up Reel Gear with the unit in the playback mode. It should be $30 \sim 50$ g-cm.

Take-up Torque 30 ∼ 50g-cm



Cassette-type Torquemeter

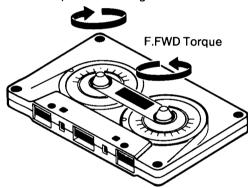
2. If necessary, adjust the torque by moving the Friction Spring of the Friction Assembly as illustrated.



FAST FORWARD & REWIND TORQUE

1. The fast forward and rewind torque value measured by the cassette-type torquemeter should be 55 \sim 100g-cm.

REW. Torque 55 ~ 100g-cm

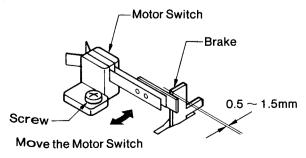


Microcassette-type Torquemeter

- If the torque value is more than 100g-cm, apply a proper amount of silicone grease (Example: SHIN-ETSU SILICONE KS-64) to the groove of the Friction Assembly. Then, rotate the motor, so that the grease flows into the Take-up Belt.
- 3. If the torque value is less than 55g-cm, replace the Take-up Belt with a new one.

MOTOR SWITCH ADJUSTMENT

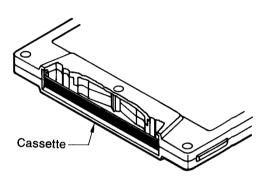
 Set the unit in the stop mode and check to see that the clearance between the Motor Switch and the Brake is 0.5 ~ 1.5mm as illustrated, and that the Motor Switch is truned on by pressing one of the Select Button (PLAY, F.FWD, or REW).



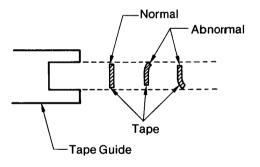
- 2. If necessary, loosen the screw fastening the Motor Switch and move the Switch to the specified position.
- 3. After the adjustment, tighten the screw and secure it with paint or glue.

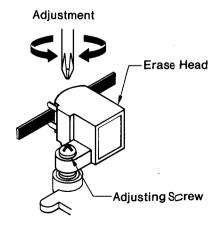
TAPE RUNNING CONDITION ADJUSTMENT

 Prepare the cassette tape (C-120) as the test tape for this adjustment.



- Insert the test tape into the cassette compartment and play it back. Then, check to see that the tape is not curling along the Tape Guide of the Erase Head while the test tape is being played back.
- If necessary, tighten the adjusting screw and slowly loosen it until the tape is exactly centered in the Tape Guide of the Erase Head.





 After the adjustment, secure the adjusting screw with paint or glue.

MICRO CASSETTE MECHANISM ADJUSTMENT

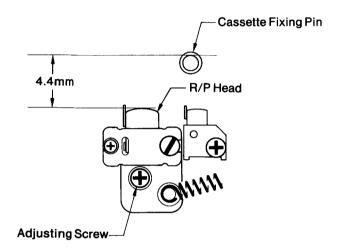
MICROCASSETTE

The metal tape (OTTO MC-46ME) is recommended to demonstrate the good performance because some microcassette tapes on the market are sometimes difficult to erase completely.

Some other brand names such as TDK, MAXELL, OLYMPUS, or MATSUSHITA are also recommended to use.

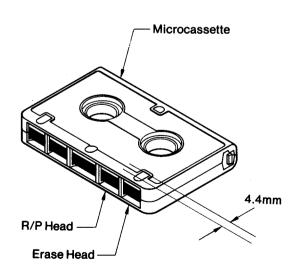
HEAD POSITION ADJUSTMENT

The distance between the cassette fixing pin and the R/P Head should be 4.4mm with the unit in the recording mode.



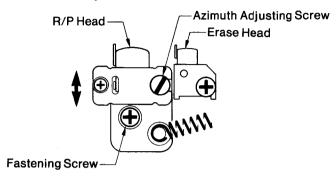
Whenever the Head has been removed or replaced, perform the head position adjustment by the following procedures.

A cassette with the specified pin-head distance marked on it as shown can be used as a facilitating gauge for the Head Position Adjustment. (Do not use a worn cassette.)



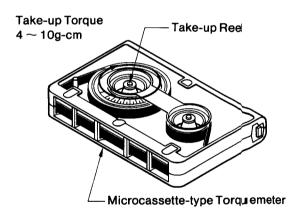
 Mount the R/P Head on the Slide Base and move the Head to the specified position. Then, tighten the fastening screw and the azimuth adjusting screw. 2. Secure the screw fastening the R/P Head with paint or glue. **NOTE:**

Secure the azimuth adjusting screw with paint or glue after the azimuth adjustment.

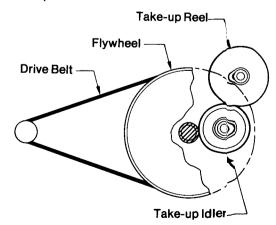


TAKE-UP TORQUE ADJUSTMENT

1. Insert the microcassette-type torquemeter into the cassette compartment and set the unit in the playback mode. Then, measure the take-up torque of the Take-up Reel. It should be $4\sim 10$ g-cm.



- 2. If necessary, check the following parts.
 - * Drive Belt
 - * Flywheel
 - * Take-up Idler
 - * Take-up Reel

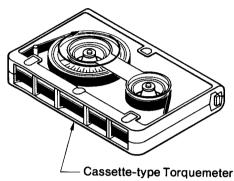


3. If the above described parts are stained or the rubber is deteriorated, wipe them with a soft cloth soaled in alcohol.

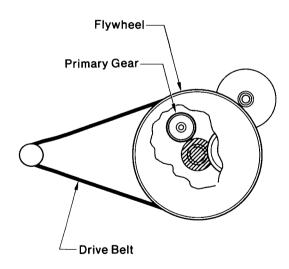
FAST FORWARD TORQUE ADJUSTMENT

 Insert the microcassette-type torquemeter into the cassette compartment and measure the F.FWD torque with the unit in the F.FWD mode. It should be more than 10g-cm.

> F.FWD Torque more than 10g-cm



- 0.09 ~ 0.17mm
- 2. If necessary, check the following parts.
 - * Drive Belt
 - * Flywheel
 - * Primary Gear

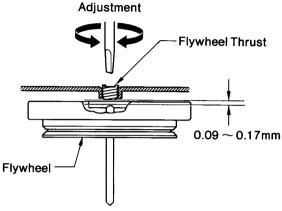


If the above described parts are stained or the rubber is deteriorated, wipe them with a soft cloth soaked in alcohol or replace them with new ones.

FLYWHEEL THRUST ADJUSTMENT

Check to see that the clearance between the Flywheel Thrust and the Flywheel is $0.09 \sim 0.17$ mm with the Chassis upside down as illustrated. If necessary, adjust the clearance by the following procedure.

 While moving the Capstan up and down, slowly turn the Flywheel Thrust clockwise to obtain the clearance of "0" (zero) between the Thrust and the Flywheel



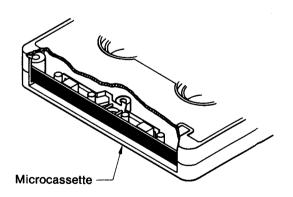
NOTE:

Do not turn the Flywheel Thrust forcibly.

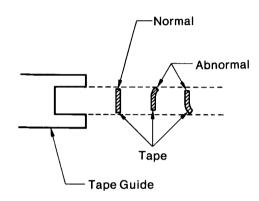
- 2. Turn the Thrust counter-clockwise by 45° \sim 90° from the position and check the clearance.
- 3. After the adjustment, secure the Flywheel Thrust with paint or glue.

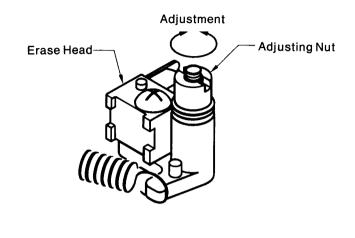
TAPE RUNNING CONDITION ADJUSTMENT

1. Cut the MC-46 metal microcassette as illustrated, so that the tape guide of the Erase Head can be obserbed.



- 2. Insert the microcassette into the cassette compartment and play it back. Then, check to see that the tape is not curling along the Tape Guide of the Erase Head while the tape is being played back.
- 3. If necessary, tighten the adjusting nut and slowly loosen it until the tape is exactly centered in the Tape Guide of the Erase Head.





4. After the adjustment, secure the adjusting nut with paint or glue.

ELECTRICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- Aduio Signal Generator
- Attenuator
- Frequency Counter
- VTVM (2 sets)
- Dualtrace Synchroscope
- Dummy Load (47kΩ)
- Test Tapes
 - * For Tape Speed Adjustment
 - * 3kHz Test Tape (Example: TEAC MTT-111) for the compact cassette side
 - 3kHz Test Tape (Example: OLYMPUS OA-W212) for the microcassette side
 - * For Head Azimuth Adjustment
 - 10kHz Test Tape (Example: TEAC MTT-114) for the compact cassette side
 - 5kHz Test Tape (Example: OLYMPUS OA-A221) for the microcassette side
 - * Normal Tapes for Recording and playback Test
 - Normal Tape (Example: TDK AC-222) for the compact cassette side
 - Normal Tape (Example: OLYMPUS OA-B111) for the microcassette side
- DC Constant-voltage Regulator
- Alignment Tool (Non-metallic)

Prior to the Electrical Adjustments, set the unit and the measuring instruments as follows:

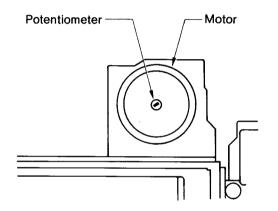
•	Tape Select Switch (C Cassette)	Normal
•	Tape Select Switch (M Cassette)	Normal
•	Function Switch	Tape
•	Beat Cancel Switch (C Cassette)	
•	Beat Cancel Switch (M Cassette)	1
•	Tape Speed Switch	2.4cm
•	Audio Signal Generator Output	1kHz, 0dB (1V)
•	DC Constant-voltage Regulator Output	9V

NOTE:

The Electrical Adjustments should be performed in the order as described below.

Supply power source of 9V DC from the constant-voltage regulator to the unit at the adjustment.

Dummy Load 47k Ω R Frequency Counter 3,000Hz (±3%)



4. While playing back the test tape, adjust the potentiometer inside the motor with an alignment tool until the frequency counter reads 3,000Hz (±3%).

Microcassette Side

The tape speed adjustment can be performed without removing the Mechanism Chassis. Remove the cassette compartment lid before the adjustment.

2.4cm/sec. Adjustment

 Set the Tape Speed Switch to "2.4cm" and insert a 3kHz test tape (Example: OLYMPUS OA-W211) into the cassette compartment.

TAPE SPEED ADJUSTMENT

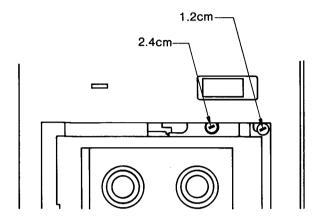
Compact Cassette Side

- Remove the Mechanism Chassis from the unit and insert a 3kHz test tape (Example: TEAC MTT-111) into the Mechanism Chassis.
- Connect the frequency counter to the left or right channel LINE OUT as illustrated.
- Connect the constant-voltage regulator to the source terminals on the Amplifier P.C.Board and supply 9V DC to the Amplifier.



ELECTRICAL ADJUSTMENTS (Continued)

 While playing back the test tape, turn the potentiometer (P501) on the Governor P.C.Board until the frequency counter reads 3,000Hz (±3%).



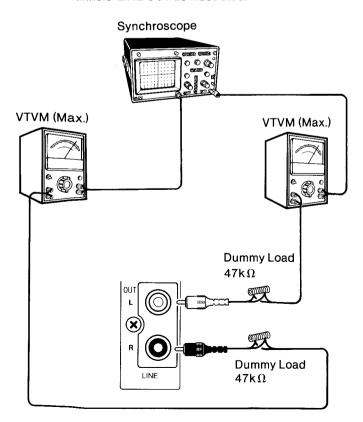
- 1.2cm/sec. Adjustment
- 3. Set the Tape Speed Switch to "1.2cm" and play back the same tape as used "2.4cm/sec. Adjustment".
- 4. Turn the potentiometer (P502) on the Governor P.C.Board until the frequency counter reads 1,500Hz (\pm 10%).

HEAD AZIMUTH ADJUSTMENT

Remove the both cassette compartment lids on the compact and microcassette sides before the azimuth adjustment.

Compact Cassette Side

 Connect the VTVM and the dualtrace synchroscope to the both channels' LINE OUT as illustrated.



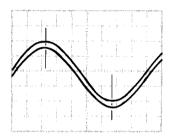
Set the synchroscope as follows:

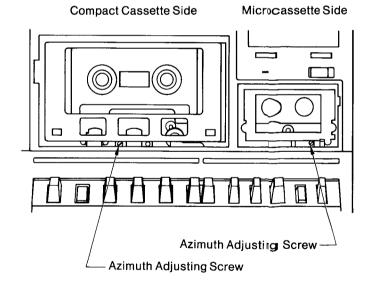
*	MODE	CHOP (chopped)
*	SOURCE	INT (internal), CH1 or CH2
*	SWEEP MODE	AUTO (automatic)

NOTE:

Adjust the field on the synchroscope with the VOLT. ADJ. and TIME ADJ.

 Insert a 10kHz test tape (Example: TEAC MTT-114) into the cassette compartment. While playing back the tape, slowly turn the azimuth adjusting screw until the wave forms of the right and left channels are superimposed and set to optimum at maximum reading on the VTVM.





Microcassette Side

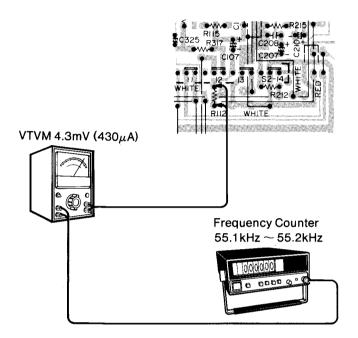
- Insert a 5kHz test tape (Example: OLYMP US OA-A211) into the cassette compartment and performt he azimuth adjustment in the same manner as "Compact (assette Side".
- After the adjustment, secure each azimuthadjusting screw with paint or glue.

ELECTRICAL ADJUSTMENTS (Continued)

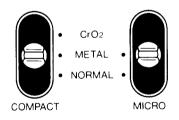
OSCILLATION FREQUENCY AND RECORDING BIAS ADJUSTMENT

Compact Cassette Side RIGHT CHANNEL

Connect the VTVM across R112 as illustrated and the frequency counter to the output terminal of the VTVM as illustrated.



Set the Tape Select Switches on the compact and microcassette sides to "METAL" and insert a tape (no particular type) into the cassette compartment. Then, set the unit in the recording mode.

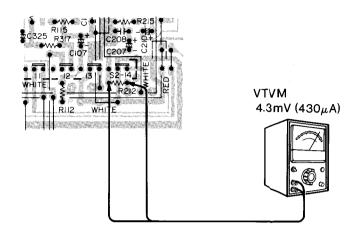


Tape Select Switches

- Turn the core of the oscillation transformer (T301) with an alignment tool until the frequency counter reads 55.1kHz
 ∼ 55.2kHz
- 4. Keeping the unit in the recording mode, turn the potentiometer (P 101) until the VTVM reads 4.3mV (430 μ A).

LEFT CHANNEL

5. Connect the VTVM across R212 as illustrated and turn the potentiometer (P201) until the VTVM reads 4.3mV ($430\mu\text{A}$).



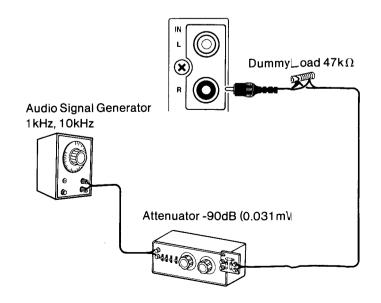
Microcassette side

Insert a microcassette tape (no particular type) into the cassette compartment and perform the adjustment under the following conditions in the same manner as "Compact Cassette Side".

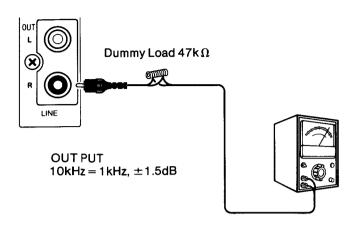
REC/PLAY FREQUENCY RESPONSE ADJUSTMENT

Compact Cassette Side RIGHT CHANNEL

 Connect the audio signal generator and the attenuator to the right channel LINE IN, and the VTVM to the right channel LINE OUT as illustrated.



ELECTRICAL ADJUSTMENTS (Continued)



- Insert a normal tape (Example: TDK AC-222) into the cassette compartment and alternately record the signals of 1kHz and 10kHz at -90dB (0.031mV) from the audio signal generator on the tape several times.
- 3. While playing back the recorded signals, check that the 10kHz signal output level is identical to the 1kHz signal output level or the deviation is ±1.5dB.

- If necessary, adjust the potentiometer (P101) turning it and then, repeat the recording and playback operations of the two signals.
- 5. Repeat the above adjustment until the 10kHz signal output meets the specified output.

LEFT CHANNEL

Connnect the audio signal generator and the attenuator to the left channel LINE IN, and the VTVM to the left channel LINE OUT. Adjust the potentiometer (P201), following the same procedures as in "RIGHT CHANNEL".

Microcassette Side

Insert a normal microcassette tape (Example: OLYMPUS OA-B111) into the cassette compartment and perform the adjustment under the following conditions in the same manner as "Compact Cassette Side".

*	Input Signal:700Hz and 7kH	Z
*	Input Level:90dB (0.031mV)
*	Potentiometers to be adjusted:	
	Right Channel P102	2
	Left Channel P202	2

TUNER ADJUSTMENT

EQUIPMENT REQUIRED

- AM Standard Signal Generator
- FM Standard Signal Generator
- Generator Scope
- Stereo Signal Generator
- Loop Antenna
- Dummy Antenna (30 Ω/10pF) for SW
- Dummy Antenna (75 Ω , unbalanced type) for FM
- VTVM
- **Frequency Counter**
- **Distortion Meter**

NOTE:

Use a alignment tool with plastic grip for all adjustments.

- Oscilloscope
- Dummy Load (3.2Ω)
- Alignment Tool
- Before performing the adjustment, set the unit as follows:
 - * Function Switch RADIO
 - FM Mode Switch MONO
 - * Tone Control Maximum
 - Balance Control Center (0) Volume Control Center

MW ALIGNMENT

Standard Test Frequency 400Hz and Modulation 30% at AM

64	Allannas	Conne	ections	Frequency	Tuning Dial	Adjustments	Remarks	
Step	Alignment	INPUT	OUTPUT	of Signal Generator	Satting	Adjustments	nemarks	
1	Calibration of IF for AM	Connect standard loop antenna to output terminal of gene-scope. Place loop antenna 60cm away from bar antenna.	Connect input terminal of gene- scope to detector output terminals. (CN1-1 or CN1-2, and CN1-3)	460kHz	Low End	T8, T9 and T10	Obtain symmetrical curve and maximum amplitude.	
2	Calibration	Connect standard	$\begin{array}{llllllllllllllllllllllllllllllllllll$	510kHz		Т6	Obtain sine-wave of 400Hz	
3	of Tuning Range	output of signal		1,670kHz	High End	TC4	and maximum amplitude.	
4	Adjustment	Place loop antenna		to Ext. Speaker	600kHz	600kHz	L4-2 (bar ant. coil)	Max.(\land)
5	of Tracking	bar antenna.		1,400kHz	1,400kHz	TC3 (PVC)		
6	Repeat the abo	ove adjustment.	<u> </u>	· · · · · · · · · · · · · · · · · · ·	1	,		

LW ALIGNMENT

Alignment	Connections		Frequency	Tuning Dial	A	Remaks
	INPUT	ОИТРИТ	Generator	Setting	Adjustments	rema r 3
Calibration	Connect standard	On an analytis (Administration	145kHz	Low End	Т7	Obtain sine-war of 400Hz
Tuning Range	loop antenna to output of signal generator. Place loop antenna	Connect V I VM with 3.2 Ω dummy load and oscilloscope to Ext. Speaker terminal.	365kHz	High End	TC4	and maximum an plitude.
Adjustment			170Hz	170Hz	L4-1 (bar ant. coil)	Max.(()
of Tracking	60cm away from bar antenna.		310Hz	310Hz	TC2	1
-	Calibration of Tuning Range Adjustment of	Calibration of Tuning Range Adjustment of Connect standard loop antenna to output of signal generator. Place loop antenna 60cm away from	Alignment INPUT OUTPUT Calibration of Tuning Range Connect standard loop antenna to output of signal generator. Connect VTVM with 3.2Ω dummy load and oscilloscope to Ext. Speaker terminal. Adjustment of 60cm away from terminal.	Alignment INPUT OUTPUT of Signal Generator Calibration of Tuning Range Connect standard loop antenna to output of signal generator. Connect VTVM with 3.2 Ω dummy load and oscilloscope to Ext. Speaker terminal. 365kHz	Alignment INPUT OUTPUT of Signal Generator Tuning Dial Setting Calibration of Tuning Range Connect standard loop antenna to output of signal generator. Connect VTVM with 3.2 Ω dummy load and oscilloscope to Ext. Speaker of Ext. Speaker terminal. 365kHz High End	Alignment INPUT OUTPUT of Signal Generator Tuning Dial Setting Adjustments Calibration of Tuning Range Connect standard loop antenna to output of signal generator. Connect VTVM with 3.2 Ω dummy load and oscilloscope to Ext. Speaker of Ext. Speaker terminal. 365kHz High End TC4 Adjustment of Flace loop antenna 60cm away from to Ext. Speaker terminal. 170Hz 170Hz L4-1 (bar ant. coil)

TUNER ADJUSTMENT (Continued)

SW ALIGNMENT

Step	Alignment	Connections		Frequency	Tuning Dial	A di					
Steb		INPUT	ОИТРИТ	of Signal Generator	Setting	Adjustments	Remarks				
1	Calibration of	Connect signal	Connect \/T\/h4ith	5.7MHz	Low End	T5	Obtain sine-wave of 400Hz				
2	Tuning Range	generator to antenna terminals (TP1 and TP2) through dummy	antenna terminals 3.2 Ω dummy load	1 - 1	3.2Ω dummy load	3.2Ω dummy load	3.2Ω dummy load	18.7MHz	High End	тсз	and maximum amplitude.
3	Adjustment of		and oscilloscope to Ext. Speaker	6.5MHz	6.5MHz	T4	Max.((() () ()				
4	Tracking	antenna (30 Ω /10pF).	terminal.	17.0MHz	17.0MHz	TC1	1 1				
5	Repeat the abo	ove adjustment.									

FM ALIGNMENT

Standard test frequency 400Hz and deviation 22.5kHz

Step	A 1:	Conne	ctions	Frequency	Tuning Dial									
Step	Alignment	INPUT	ОИТРИТ	of Signal Generator	Setting	Adjustments	Remarks							
1	Calibration of	Place ouput of gene-scope on Trap Coil (T11).	Connect input terminal of genescope to detector output terminals. (CN1-1 or CN1-2,	10.7MHz	Low End	Turn T43blue core) fully counter- clockwise T1, and T2.	Obtain symmetrical curve and maximum amplitude. Max.10.6 10.8							
2	ĬF		(CN1-1 or CN1-2, and CN1-3)	TO./IMM2	LOW ENG	T3 (blue core)	Obtain S curve and maximum amplitude.							
3	Calibration	Connect signal	0	87.35MHz		L2	Obtain sine-curve and							
4	of Tuning Range	generator to antenna terminals (TP1 and TP2) through dummy antenna (75 Ω, unbalanced Type).	a Connect VTVM with 3.2 Ω dummy load and oscilloscope to Ext. Speaker terminal.	108.25MHz	High End	TC2 (PVC)	maximum amplitude.							
5	Adjustment			to Ext. Speaker	to Ext. Speaker	to Ext. Speaker	to Ext. Speaker	to Ext. Speaker	to Ext. Speaker	to Ext. Speaker	90MHz	90MHz	L1	Max.(\lambda
6	of Tracking			106MHz	106MHz	TC1 (PVC)	1 0 0							
7	Repeat the abo	ove adjustment.												

TUNER ADJUSTMENT (Continued)

FM MPX (Multiplex) ADJUSTMENT

Before performing the adjustment, set the unit as follows:

•	Function Select Switch	RADIO
•	Band Select Switch	FM
•	FM Mode Switch	STEREO
•	Tone Control	Max.
•	Balance Control	Center (0)
•	Volume Control	Center

19kHz (V.C.O.) ADJUSTMENT

- 1. Connect the Frequency counter to the twelfth pin (Test Point TP4) in IC2 (μ PC1197).
- Adjust the potentiometer (P1) until the oscilation frequency of IC2 becomes 19kHz (±20Hz).

CHANNEL SEPARATION ADJUSTMENT

- 1. Connect the stereo signal generator and the FM standard signal generator through the 75 Ω dummy antenna (unbalanced type) to the antenna terminals (TP1 and TP2) on the Radio Tuner P.C.Board.
- 2. Connect the VTVM with $3.2\,\Omega$ dummy load distortion meter, and oscilloscope to the external speaker jack of the left channel.

- 3. Adjust the input measuring instruments as follows:
 - Stereo Signal Generator

 - * Modulation Frequency 400Hz
 - FM Standard Signal Generator
 - * Signal Generator Frequency 98MHz
 - * Signal Generator Output 60dB μ
- 4. Set the turning frequency to 98MHz.
- 5. Adjust the potentiometer (P2) by following the Chart below.

NOTE:

Use a alignment tool with plastic grip for all adjustments.

Alignment	INPUT	T	Tuning Dial	Adjustment	
		ОИТРИТ	Setting	rajustinont	Remarks
FM Stereo	Pilot (19kHz) and Sub channel signals of Stereo SG —ON	Connect measuring instru-	98MHz	Dial of FM SG	Maximize amplitude of Oscillo- scope and VTVM reading with minimum distortion.
Signal Separation	R channel and Pilot signal of	ments to L channel Ext. Speaker termiant		P2	Minimize amplitude of Oscillo- scope and VTVM reading.
	Stereo SG -ON				
S	Signal eparation	channel signals of Stereo SG —ON Signal eparation R channel and Pilot signal of	channel signals of Stereo SG —ON R channel and Pilot signal of Stereo SG —ON Connect measuring instruments to L channel Ext. Speaker termianl	channel signals of Stereo SG —ON Connect measuring instruments to L channel ments to L channel Ext. Speaker termianl Stereo SG —ON	channel signals of Stereo SG —ON Connect measuring instruments to L channel Ext. Speaker termianl P2 Channel signals of Stereo SG —ON Connect measuring instruments to L channel Ext. Speaker termianl P2

6. Connect the measuring instruments to the external speaker jack of the right channel and perform the adjustment by following the Chart below.

	A **			Tuning Dial	Adjustment	Remarks
Step	Alignment			Setting		
1	FM Stereo	Pilot (19kHz) and Sub channel signals of Stereo SG –ON	Connect measuring instru-	98MHz	Dial of FM SG	Maximize amplitude of Oscillo- scope and VTVM reading with minimum distortion.
2	Signal Separation	L channel and Pilot signal of Stereo SG —ON	ments to R channel Ext. Speaker termianl		P2	Minimize amplitude of Oscillo- scope and VTVM reading.

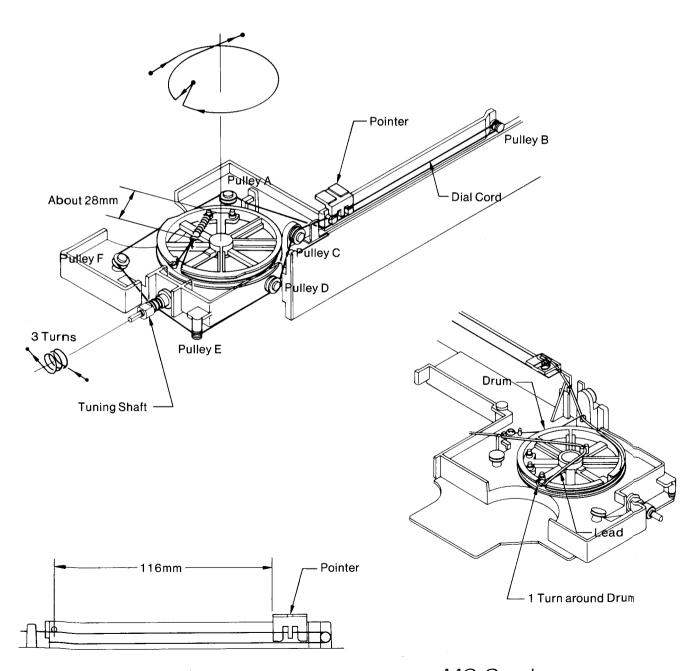
 Repeatedly perform the adjustments in Items 5 and 6 to minimize the signal leakage for both right and left channels. Then, reduce the difference between each channel separation by adjusting the potentiometer (P2).

DIAL CORD STRINGING

- Mount the Radio Tuner P.C.Board on the Radio Chassis and then, the shaft of the variable condenser on the Drum.
- 2. Tie the dial cord of length 1,100mm (effective length: 1,010mm) and diameter ϕ 0.5 to the spring and hook the spring to the illustration position of the drum.
- Engage the dial cord as illustrated in the following order.
 Drum (1 turn) → Pulley A → Pulley B → Pulley C → Pulley D
 → Pulley E → Turnig Shaft (3 turns) → Pulley F → Drum → Spring
- Hook the dial cord to the spring and expand the dial cord until the spring length becomes about 28mm. Then, tie the dial cord to the spring.
- 5. Secure the place where the spring is hooked to the drum and the knot in the dial cord with paint or glue.
- Turn the Tuning Shaft counter-clockwise until it stops and set the pointer, where the LED is mounted and the LED lead are connected, to the place 116mm away from the mark on the Radio Chassis. Then, attach the pointer to the dial cord and secure it with white lacquer.
- 7. Turn the Tuning Shaft clockwise to set the pointer to the right end.
- 8. Arrange the lead of the LED (Tuning Indicator) connected to the pointer with a little loosenness as illustrated.
- Apply white lacquer to the area where the lead is connected.

NOTE:

Refer to the Circuit Diagram for soldering position of the lead.



PARTS LIST

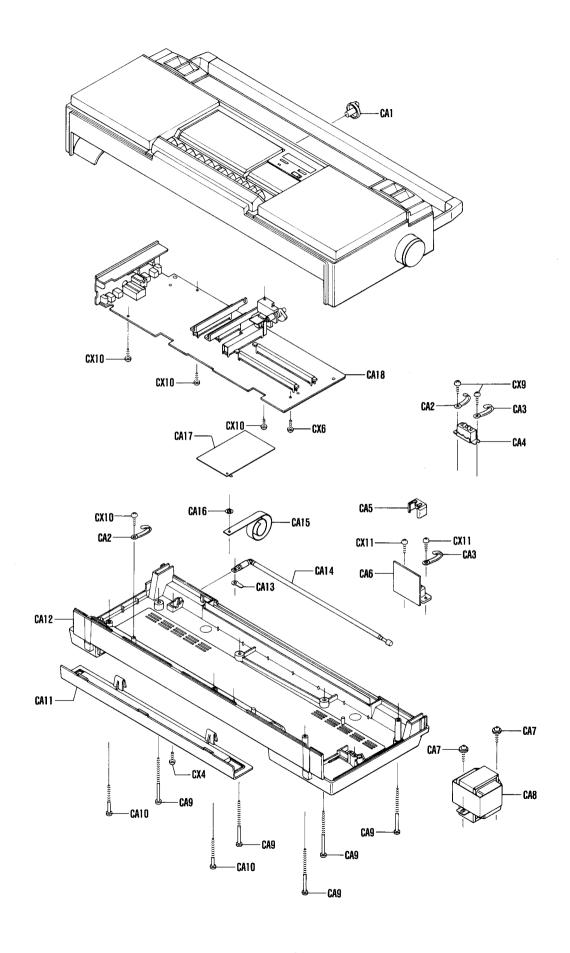
PACKAGE	Q'ty
141 6 1449 7500 Syrotham 1	1
141 6 1449 7500 Syrotam Case, R 1	1
141 6 1449 75900 Syrortam Case, L 1 CA33 628 3 9812 00000 String, 0.5 Shee, Pointer 141 6 2519 15799 Paly Cover 1 CA35 CA35 CA35 CA37 141 2 2449 24000 Pale CA37 141 2 1439 19700 String More CA37 141 2 1439 19700 Strong More CA37 C	1
141 6 1449 7500 Styrofroum	2
141 6 d 5459 03200 Serial No. Sheet 1 CA35 20.5 8 8000 20213 LED, SL/P2CC (Tuning) [D11]	1
ACCESSORIES	1
ACCESSORIES	1
ACCESSORIES 4 2419 74064 Micro Cassette 1	1
ACCESSORIES 4 2419 74040 Micro Cassette 1 CA41 41 2 2519 14000 Screw	1
4 2419 74082	1
4 2419 74082 Cassette	2
4 2439 70310 Power Cord 1 CA42 41 2 1619 91800 Knob	6
141 6 2519 11022 Poly Cover 120 x 250 1	4
141 6 2519 25005 Poly Cover 250 x 350 1	3 1
141 6 4519 1400 Warranty Card 1	1
141 6 4729 9700 Caulion labe 1	2
141 6 4729 37700 Caution Labe 1	1
141 6 4729 35700	i
142 6 4119 2890	1
CAS Inter CAS C	1
CABINET	B2] 1
A 2359 70990 RT Pin Socket 3	PCB4] 1
4 2559 759739 Connector 3P Assy [CN4] 1 CA55	1
4 2359 75362 Connector 4P Assy [CN6]	1
4 2389 7566 Connector 4P Assy (CN6) 1 CA56 141 2 419 22100 Screen, Switch 141 2 2899 22700 Adhesive Sheet 2 CA58 141 2 1619 94000 Knob, Select 141 2 2899 22800 Adhesive Sheet 1 CA59 141 0 7419 32000 Switch Lever Assy 141 2 2899 22900 Adhesive Sheet 1 CA60 4 2279 73442 Volume Control (Mix. A-20kΩ) [VR:O1] C153 C84 7 5160 0000H None-polar 4.7μF 16V 1 CA61 141 2 3659 17100 Bracket, Volume C253 C84 7 5160 0000H None-polar 4.7μF 16V 1 CA62 141 0 3119 20002 C324 CD1 0 7160 000H Cerboric 100μF 16V 1 CA62 141 0 3119 20002 C334 CD1 0 7160 000H Cerboric 100μF 16V 1 CA63 141 2 4469 17200 Cushion C331 RD1 0 3251 M000 Carbon 10kΩ 1/4W ±5% 1 CA63 141 2 4469 17200 Cushion CA31 141 2 1619 91600 Knob 1 CA65 141 2 1719 99801 Adhesive Sheet CA74 4 2319 27130 Silde Switch (Voltage Select) [S17] 1 CA68 141 0 329 003000 Lid Bracket Assy CA6 4 1919 71462 Power Supply P.C.B. Assy See PCB3 1 CA72 4 1329 77460 Lid Bracket Assy CA7 141 2 4219 52000 Screw 5 CA73 141 2 4219 15700 Screw 5 CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 Lid Bracket Assy CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω Light) [SP101/Right] CA11 141 2 4219 15000 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω Light) [SP101/Right] CA13 141 2 4219 25000 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω Light) [SP101/Right] CA13 141 2 4219 25000 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω Light) [SP101/Right] CA14 4 2419 2419 25000 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω Light) [SP101/Right] CA15 141 2 4219 25000 Screw 7 CA76 141 2 8393 4600 Spind, Right Screw 7	1
141 2 2899 12900 Adhesive Sheet	1
141 2 2899 22700 Adhesive Sheet 1 CA59 141 2 1619 94000 Knob, Select 141 2 2899 22800 Adhesive Sheet 1 CA69 141 0 7419 32000 Switch Lever Assy Adhesive Sheet 1 CA60 4 2229 73442 Volume Control (Mix. A-20kΩ) [VRiO1] CI53 CB4 7 5160 0000H Mone-polar 4.7μF 16V 1 CA61 141 2 3659 17100 Bracket, Volume C253 CB4 7 5160 0000H Mone-polar 4.7μF 16V 1 CA62 141 0 3119 20402 Radio Chassis Assy CA62 141 0 3119 20402 Radio Chassis Assy CA64 4 2379 70650 Terminal Ring CA65 141 2 4279 70650 Terminal Ring CA66 141 2 4279 70650 Terminal Ring CA66 141 2 4279 70650 Terminal Ring CA66 141 2 4279 70650 Terminal Ring CA67 141 2 4359 21300 Socket Cover 1 CA68 141 2 2 2569 07500 Masher CA77 141 2 4359 21300 Socket Cover 2 CA71 4 1519 71303 Speaker (3.2Ω /Right) [Sp102] CA8 4 219 25600 Screw 5 CA73 4 1519 71303 Speaker (3.2Ω /Right) [Sp102] CA8 4 219 25000 Screw 5 CA73 4 1519 71308 Speaker (3.2Ω /Right) [Sp102] CA71 4 1519 71308 Speaker (3.2Ω /Right) CA72 4 1519 71308 Speaker (3.2Ω /Right) CA73 141 2 4219 25000 Screw 5 CA73 141 2 4219 25000 Sp104 Sp104 Sp104 Sp104 Sp104 Sp104 Sp104 S	2
141 2 2899 22800 Adhesive Sheet	2
141 2 2899 22900 Adhesive Sheet 1 CA60 4 2229 73442 Volume Control (Mix. A-20k Ω) [VR;O1] C153 CB4 7 75160 00000H None-polar 4.7 μF 16V 1 CA62 141 2 319 2110 Bracket, Volume C324 CD1 0 7160 0001V Electrolytic $100 \mu F$ 16V 1 CA62 141 2 419 1700 Cushion R331 RD1 0 2551 JM000 Carbon 10kΩ 1/4W ±5% 1 CA63 141 2 4291 15700 Cushion CA1 141 2 679 0400 Lug 1 CA66 141 0 719 9801 Handle Assy CA3 141 2 4729 94100 Lug 1 CA67 141 2 139 25702 Lid CA3 141 2 479 90400	2
C153	2
C253	
G324 CD1 0 7 160 0001V Electrolytic 100μF 16V 1 CA63 141 2 2479 7260 Cushion R331 RD1 0 3251 JM000 Carbon 10kΩ 1/4W ±5% 1 CA64 4 2379 70650 Terminal Ring CA2 141 2 4729 04100 Lug 3 CA66 141 2 1719 09801 Handle Assy CA3 141 2 4729 04200 Lug 1 CA67 141 2 1339 25702 Lid CA4 4 2319 72130 Slide Switch (Voltage Select) [S17] 1 CA68 141 2 2459 07500 Washer CA5 141 2 4359 21300 Socket Cover 1 CA68 141 2 2459 07500 Washer CA7 141 2 419 25800 Screw 2 CA71 141 1519 71033 Speaker (3.2Ω/Right) [SP102] CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 25800 Screw 5 CA73 141 2 4219 15600 Screw CA1 141 10 1339 09900 Battery Lid Assy 1 <td>1</td>	1
R331 RD1 0 3251 JM000 Carbon 10kΩ 1/4W ±5% 1 CA64 4 2379 70650 Terminal Ring	1
CA1 141 2 1619 91600 Knob	1 3
CA2 141 2 4729 04100 Lug 1 CA66 141 0 1719 09801 Handle Assy CA3 141 2 4729 04200 Lug 1 CA67 141 2 1339 25702 Lid CA4 4 2319 72130 Slide Switch (Voltage Select) [S17] 1 CA68 141 0 2529 00300 Lid Bracket Assy CA5 141 2 4359 21300 Socket Cover 1 CA69 141 2 4569 07500 Washer CA6 4 1919 71462 Power Supply P.C.B. Assy [See PCB3] 1 CA70 141 2 4469 14405 Cushion CA7 141 2 4219 25800 Screw 2 CA71 4 1519 71033 Speaker (3.2Ω /Right) [SP102] CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 11200 Screw 5 CA73 141 2 4219 15600 Screw CA10 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω / ISP101/Left] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω / ISP101/Left] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA74 4 1519 70860 Speaker (3.2Ω / ISP101/Left] CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 8539 44600 Spring, Stoper CA15 141 2 2429 02600 Ribbon, Battery 1 CA76 141 2 8539 44600 Spring, Stoper CA16 141 2 4569 05100 Press Screw 2 CA80 141 2 1519 30900 Grill, Twitter CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1519 30900 Grill, Twitter CA18 141 2 1319 23000 Clear Window 1 CA81 141 2 1519 30900 Grill, Twitter CA20 141 2 1319 23000 Clear Window 1 CA83 141 2 1219 25000 Window Panel CA21 141 0 1249 20100 Clear Window 1 CA80 141 2 1519 30900 Grill, Twitter CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM101/Right] CA25 141 2 1399 32500 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA3 141 2 4729 04200 Lug 1 CA67 141 2 1339 25702 Lid Gracket Assy CA4 4 2319 72130 Slide Switch (Voltage Select) [S17] 1 CA68 141 0 2529 00300 Lid Bracket Assy CA5 141 2 4359 21300 Socket Cover 1 CA69 141 2 4569 07500 Washer CA6 4 1919 71462 Power Supply P.C.B. Assy [See PCB3] 1 CA70 141 2 4469 14405 Cushion CA7 141 2 4219 25800 Screw 2 CA71 4 1519 71033 Speaker (3.2Ω /Right) [SP102] CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 11200 Screw 5 CA73 141 2 4219 15600 Screw CA10 141 2 4219 11200 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω / [SP101/Right]] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω / [SP101/Right]] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 70860 Spreaker (3.2Ω / [SP101/Left]] CA13 141 2 4729 00200 Lug 1 CA75 4 1519 71032 Speaker (3.2Ω / [SP101/Left]] CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 25149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA78 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA88 141 2 1319 23500 Dress Screw 2 CA82 141 2 1319 23500 Clear Window 1 CA88 141 2 1219 20500 Window Panel CA20 141 2 1319 23300 Clear Window 1 CA88 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA86 4 1539 70661 Microphone (BM201/Left) CA22 141 0 1249 20000 Lid Panel Assy 1 CA86 4 1539 70661 Microphone (BM201/Left) CA24 141 0 1249 20100 Clear Window 1 CA86 4 1539 70661 Microphone (BM201/Left) CA26 141 2 1639 44800 Tuning Knob 1 CA86 141 2 1519 30702 Grill, Speaker CA26 141 2 1639 44800 Tuning Knob 1 CA88 141 2 1519 30702 Plate, Button	1
CA4	1
CA5 141 2 4359 21300 Socket Cover CA6 4 1919 71462 Power Supply P.C.B. Assy [See PCB3] 1 CA70 141 2 4469 14405 Cushion CA7 141 2 4219 25800 Screw 2 CA71 4 1519 71033 Speaker (3.2Ω /Right) [SP102] CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 29000 Screw 5 CA73 141 2 4219 15600 Screw CA10 141 2 4219 11200 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Right] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Right] CA11 141 0 1119 80103 Cabinet Bottom Assy 1 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Left] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 70860 Speaker (3.2Ω) [SP101/Left] CA13 141 2 429 02000 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1519 30900 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM101/Right] CA22 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM101/Right] CA25 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM201/Left] CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA86 141 2 1319 23500 Plate, Button	1
CA7 141 2 4219 25800 Screw 2 CA71 4 1519 71033 Speaker (3.2 Ω /Right) [SP102] CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 20900 Screw 5 CA73 141 2 4219 15600 Screw 7 CA74 4 1519 70860 Speaker (3.2 Ω / SP101/Right) CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2 Ω) [SP101/Right] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2 Ω / Left) [SP202] CA13 141 2 4729 00200 Lug 1 CA75 4 1519 71032 Speaker (3.2 Ω / Left) [SP202] CA13 141 2 4729 00200 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1519 30900 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA20 141 2 1319 2300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA86 141 2 2499 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2419 39900 Sheet, Mike CA22 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA25 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM101/Right] CA25 141 2 1399 23500 Spring, Fine Tuning Knob 1 CA88 141 2 1399 25900 Plate, Button	2
CA8 4 2519 73600 Power Trans [T303] 1 CA72 4 1329 77460 LED P.C.B. Assy [See PCB5] CA9 141 2 4219 20900 Screw 5 CA73 141 2 4219 15600 Screw CA10 141 2 4219 11200 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Right] CA11 141 0 1339 09900 Battery Lid Assy 1 CA75 4 1519 70860 Speaker (3.2Ω) [SP101/Right] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 70302 Speaker (3.2Ω) [SP101/Right] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 71032 Speaker (3.2Ω) [SP101/Right] CA13 141 2 2479 00200 Lid 1510 1510 1510 151	3
CA9 141 2 4219 20900 Screw 5 CA73 141 2 4219 15600 Screw CA10 141 2 4219 11200 Screw 7 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Right] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2Ω) [SP101/Left] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 70860 Speaker (3.2Ω) [SP101/Left] CA13 141 2 4729 00200 Lug 1 CA75 4 1519 70360 Speaker (3.2Ω) [SP101/Left] CA13 141 2 4729 00200 Lug 1 CA75 4 1519 70360 Speaker (3.2Ω) [SP101/Left] CA14 4 2449 70270 Rod Antenna 1 CA76 141 2 8599 95000 Washer CA16 141 2 2149 02600	1
CA10 141 2 4219 11200 Screw 7 CA74 4 1519 70860 Speaker (3.2 Ω) [SP101/Right] CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2 Ω) [SP101/Left] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 71032 Speaker (3.2 Ω /Left) [SP202] CA13 141 2 4729 00200 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA22 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM201/Left] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA86 4 1539 70661 Microphone [BM201/Left] CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	1
CA11 141 0 1339 09900 Battery Lid Assy 1 CA74 4 1519 70860 Speaker (3.2 Ω) [SP101/Left] CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 71032 Speaker (3.2 Ω /Left) [SP202] CA13 141 2 4729 00200 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA20 141 2 1319 23300 Clear Window 1 CA81 141 2 1219 25900 Veil CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2419 2500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA86 4 1539 70661 Microphone BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1319 2300 Plate, Button	8
CA12 141 0 1119 80103 Cabinet Bottom Assy 1 CA75 4 1519 71032 Speaker (3.2 Ω / Left) [SP202] CA13 141 2 4729 00200 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 25000 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2419 25000 Window Panel CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA13 141 2 4729 00200 Lug 1 CA76 141 2 8539 44600 Spring, Stoper CA14 4 2449 70270 Rod Antenna 1 CA77 141 2 4569 05500 Washer CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1339 25900 Plate, Button	2
CA14	1
CA15 141 2 2149 02600 Ribbon, Battery 1 CA78 141 0 2529 00200 Lid Bracket Assy CA16 141 2 4569 05100 Ring 1 CA79 141 2 1319 23503 Dial Window CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	1
CA16	1
CA17 141 0 3229 00400 Shield Plate Assy 1 CA80 141 2 1559 05400 Grill, Twitter CA18 4 1329 77352 Amplifier P.C.B. Assy [See PCB1] 1 CA81 141 2 1519 30900 Grill, Twitter CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	1
CA18	1
CA19 141 2 4219 25000 Dress Screw 2 CA82 141 2 2419 25900 Veil CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2 2
CA20 141 2 1319 23300 Clear Window 1 CA83 141 2 1219 20500 Window Panel CA21 141 0 1249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA21 141 0 1 249 20000 Lid Panel Assy 1 CA84 141 2 2449 39900 Sheet, Mike CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1 249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	1
CA22 141 2 4219 25100 Dress Screw 2 CA85 141 2 2719 16800 Holder Microphone CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA23 141 2 1319 23400 Clear Window 1 CA86 4 1539 70661 Microphone [BM101/Right] CA24 141 0 1249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA24 141 0 1 249 20100 Lid Panel Assy 1 CA86 4 1539 70661 Microphone [BM201/Left] CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA25 141 2 1639 44800 Tuning Knob 1 CA87 141 2 1519 30702 Grill, Speaker CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
CA26 141 2 8539 25300 Spring, Fine Tuning Knob 1 CA88 141 2 1339 25900 Plate, Button	2
	1
CA27 141 2 1639 44900 Knob, Fine 1 CA89 141 2 1619 93600 Knob, Switch	1
CA28 141 2 8519 06700 Spring, Cassette Case Lever B 1 CA90 141 2 2449 40400 Seet, Knob	1

PARTS LIST (Continued)

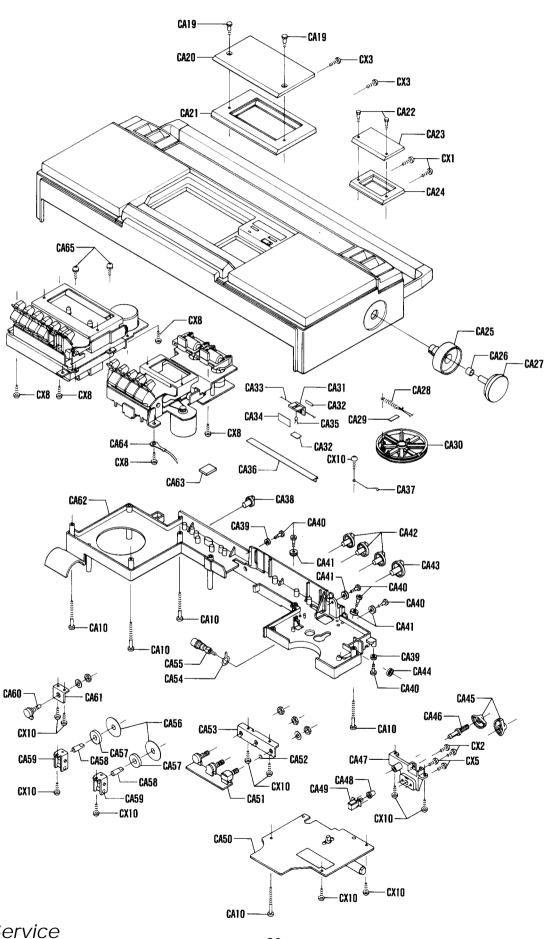
Ref. No.	Parts No.	Descripti	on	Q'ty
CA91	141 0 1119 84700	Completed Cabinet Top		1
CA92	141 2 4569 04200	Ring		1
CA93	141 2 1429 11400	Badge		1
CA94	4 5119 70740	Indicator P.C.B. Assy [See P	CB6]	1
CX1	101 3 1302 00413	Screw, Pan Hd.	+M2.0x4	2
CX2	101 3 1302 00611	Screw, Pan Hd.	+M2.0x6	2
CX3	101 3 1302 60413	Screw, Pan Hd.	+M2.6x4	2
CX4	101 3 1302 60618	Screw, Pan Hd.	+M2.6x6	1
CX5	101 3 1303 00611	Screw, Pan Hd.	+M3.0x6	2
CX6	101 3 1303 00811	Screw, Pan Hd.	+M3.0x8	1
CX7	103 3 1302 60611	Screw, Pan Hd. Tapping-2	+M2.6x6	1
CX8	103 3 1303 01219	Screw, Pan Hd. Tapping-2	+M3.0x12	5
CX9	143 3 1303 00811	Screw, Pan Hd. Tapping-B	+M3.0x8	2
CX10	143 3 1303 01011	Screw, Pan Hd. Tapping-B	+M3.0x10	22
CX11	143 3 1303 01211	Screw, Pan Hd. Tapping-B	+M3.0x12	2
CX12	143 3 1303 01411	Screw, Pan Hd. Tapping-B	+M3.0x14	3
CX13	112 3 1302 00082	E Ring	M2.0	1

- Parts order must contain Model Number, Part Number and Description.
 Ordering quantity of screws and resistors must be multiple of

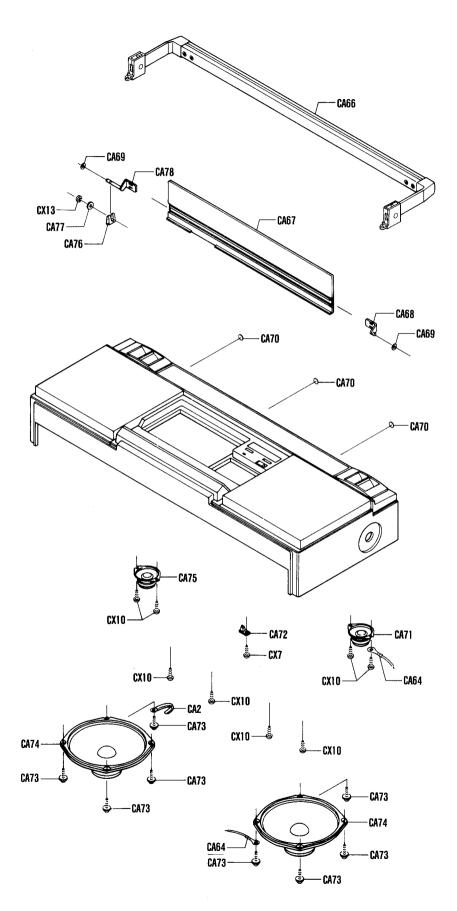
CABINET EXPLODED VIEW



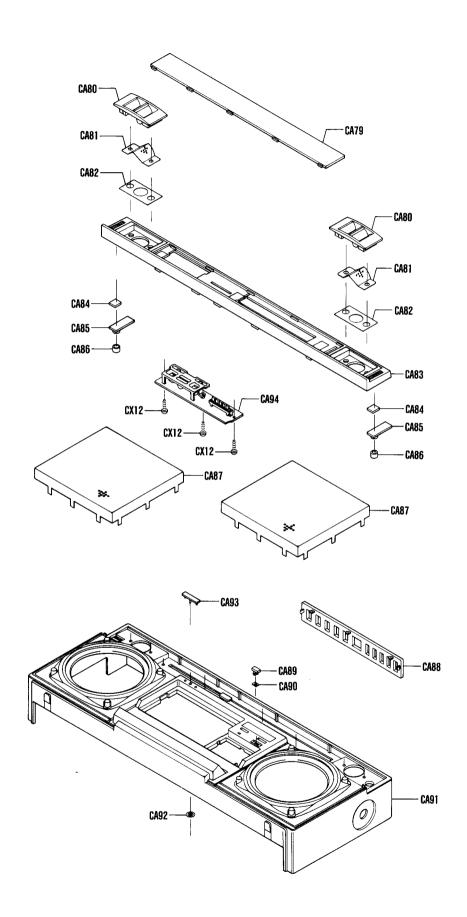
CABINET EXPLODED VIEW (Continued)



CABINET EXPLODED VIEW (Continued)



CABINET EXPLODED VIEW (Continued)



MECHANISM PARTS LIST

Ref. No.	Parts No.	Description	Q'ty	Ref. No.	Parts No.	Description	Q'ty
	MECHANISM			MC64	141 0 7439 06300	Take-up Arm Assy	1
MC1	141 2 5519 39700	Gear Actuate Plate	2	MC65	141 2 8519 71900	Spring, Take-up Arm	1
MC2	141 0 3169 07200	Dumper Bracket Assy	1	MC66	141 2 5519 22000	Take-up Gear	1
MC3	141 2 4729 04100	Lug	2	MC67	141 2 7419 48100	Fast Wind Lever	1
MC4	141 2 1149 20800	Cabinet Compartment	1	MC68	141 2 4219 05400	Screw w/Washer	1
MC5	141 2 1449 45200	Compartment Plate	1	MC69	141 2 8519 70300	Spring, Pause Plate	2
MC6	141 2 8539 31400	Spring, Cassette	2	MC70	141 2 7319 34000	Pause Plate	1
MC7	141 2 3519 37000	Cassette Holder, Left	1	MC71	141 2 8539 31300	Spring, Cassette	1
MC8	141 2 5559 06600	Rack Gear	1	MC72	4 2379 70650	Terminal Ring Chip, Cassette Lid Lock	1
MC9	141 2 4219 13201	Screw w/Washer	1	MC73 MC74	141 2 8219 24400 141 2 7319 33000	Plate, Cassette Lid Lock	1
MC10	141 2 8549 06200	Spring, Cassette Lid	1 1	MC74	141 2 7519 33000	Rewind Gear	1
MC11 MC12	141 2 1249 22401 141 2 3519 37100	Cassette Lid Frame Cassette Holder, Right	1	MC76	141 2 4539 06700	Washer	1
MC13	141 2 3519 37100	Lug	3	MC77	141 2 8539 35800	Spring, Flywheel	1
MC14	141 2 3789 07800	Bracket, Motor	1	MC78	141 2 4539 18400	Washer	1
MC15	4 5279 71071	Motor (Compact) [M1]	1	MC79	141 0 5219 03901	Flywheel Assy	1
MC16	141 2 3169 17400	Chassis Bracket	1	MC80	141 2 5649 02300	Belt	1
MC17	141 2 7419 75600	Pause Button Lever	1	MC81	141 0 7319 23700	Switch Lever Assy	1
MC18	141 0 3119 14509	Chassis Assy	1	MC82	141 0 3519 20200	Support Flywheel Assy	1
MC19	141 2 7319 32202	Slide Base Plate	1	MC83	141 2 4469 00500	Flywheel Thrust	2
MC20	141 2 8519 74100	Spring, Record	1	MC84	141 2 3229 34700	Shield Plate	1
MC21	141 2 6139 13104	Button Frame	1	MC85	141 2 8519 68100	Spring, Pause	1
MC22	141 2 7419 55900	Pause Lever	1	MC86	141 2 8519 73400	Spring, Stop Lever	1
MC23	141 2 8519 75300	Spring, Pause Lever	1	MC87	141 2 7419 51701	Stop Lever	1
MC24	141 2 7419 51000	Review Lever	1	MC88	141 2 5649 11100	ASO Belt	1
MC25	141 2 7419 58300	Cue Lever	1	MC89	141 2 5519 27200	ASO Pulley	1
MC26	141 0 1619 31300	Button Lever Assy	1	MC90 MC91	141 2 4539 15800 141 2 7419 51600	Washer ASO Lever	4
MC27 MC28	141 0 1619 30900	Button Lever Assy	1	MC92	141 2 8519 72000	Spring, ASO	i
MC29	141 0 1619 31200 141 0 1619 31100	Button Lever Assy Button Lever Assy	3	MC93	141 0 5519 05901	Friction Assy	1
MC30	141 0 1619 33100	Button Lever Assy	1	MC94	141 2 5649 09900	Take-up Belt	1
MC31	141 2 6129 05400	Spindle, Button Lever	1	MC95	4 2319 72010	Leaf Switch (Play/Cmpact) [S12]	1
MC32	141 2 8519 90700	Spring, Button Lever	1	MC96	141 2 4219 12100	Screw w/Washer	1
MC33	141 2 8519 70101	Spring, Button Lever	2	MC97	141 2 7419 51900	Stop/Eject Lever	1
MC34	141 2 8519 70100	Spring, Button Lever	1	MC98	141 2 3529 17900	Spacer, Brake	1
MC35	141 2 3529 19100	Spacer, Base	1	MC99	141 2 8519 19300	Spring, Brake	1
MC36	141 0 7319 18901	Plate Assy	1		141 2 7319 40800	Lock Plate	1
MC37	141 2 8519 78600	Spring, Slide Base	1	1	141 2 4219 14600	Screw w/Washer	2
MC38	141 2 3529 20600	Spacer, Switch Plate	1	1	141 2 7419 65700	Record Stop Lever	1
MC39	141 2 8519 78200	Spring, Switch Plate	1		141 2 3529 26500	Spacer	2
MC40	141 2 7319 40700	Swich Plate	1		141 2 7419 48300	Record Stop Lever	1
MC41	141 2 4219 13200	Screw w/Washer	4		141 2 8519 16700	Spring, Eject Slide Plate Record Lock Lever	1
MC42	141 2 3529 21900	Spacer, Erase Head	1	4	3 141 2 7419 65900 7 141 2 8429 05402	Record Plate	1
MC43 MC44	141 2 8519 75500	Spring Erase Head (Compact) [HD2]	2 1		3 141 2 4459 20501	Brake Cover	2
MC45	4 2429 71880 141 2 8519 71800	Spring, Interlock	1		141 2 7149 03400	Brake	1
MC46	141 2 8419 09400	Interlock Lever	i		141 2 8519 61600	Spring, Brake	1
MC47	141 2 5369 00400	Cap, Reel Plate	2		141 0 3119 20000	Sub Chassis Assy	1
MC48	141 2 4539 27100	Washer	1		2 141 2 4219 15700	Screw	5
MC49	141 2 5319 03500	Reel Fin	2		3 141 2 8539 43900	Spring, Button	1
MC50	141 2 8519 67901	Spring, Supply Reel	1	MC114	141 2 6619 02800	Pulley	2
MC51	141 2 5319 05100	Reel Gear	2	MC115	141 2 7419 75900	Stop Lever	1
MC52	141 2 8519 67900	Spring, Reel	1		5 141 2 4539 23700	Spacer	7
MC53	141 2 8539 31001	Spring, Base	1		141 2 4359 26800	Sheet	1
MC54	4 2319 72010	Leaf Switch (Power/Cmpact) [S13]	1		3 141 2 4539 27101	Washer	1
MC55	4 2429 71674	R/P Head (Compact) [HD1]	1		141 2 8529 05900	Spring, Pause Plate	1
MC56	141 2 3529 18101	Spacer, Head	1		141 2 7439 25600	Pause Lock Plate	1
MC57	141 2 4219 09000	Screw	2	1	141 0 7419 30800	Pause Lever Assy	1
MC58	141 2 7319 37900	Head Plate	1		2 141 2 8519 64700	Spring, Record Lever	2
MC59	141 0 5419 02401	Pinch Roller Assy	1		3 141 2 8529 07400 3 141 2 1249 28200	Spring, Cassette Lid Frame, Cassette Lid	1
MC60 MC61	141 2 8519 67700	Spring, Pinch Roller	1		5 141 2 1249 28100	Cassette Lid Guide, Left	1
MC62	141 2 8519 67100	Spring, Fast Wind	1		6 141 2 1249 28000 6 141 2 1249 28000	Cassette Lid Guide, Right	1
141002	141 0 7439 05400 141 2 5519 22300	Fast Wind Arm Assy Gear, Fast Wind	2		7 141 2 5559 06700	Rack Gear, Micro	ا د

MECHANISM PARTS LIST (Continued)

MC128	Ref. No.	Parts No.	Description	Q'ty	Ref. No.		Parts No.	Description		Q'ty
MC139 141 0 1919 31509 Button Leve, Micro Assy 1 MC139 141 2 4599 13700 Washer	MC128 14	11 0 1619 31600	Button Lever, Micro Assy	1	MC192	141	2 8529 07500	Spring, Interlock		1
MG132 141 2 1919 1400 Cachier, Morby 2 MG156 141 2 7839 17200 Arm, Record Lack Arm MG133 141 2 4991 1900 Cachier, Morby 2 MG157 141 2 7839 17500 Arm, Record Recor			Button Lever, Micro Assy	2	MC193	141	2 7439 29500			1
Montage 441 2 4789 19400 Counter C			Button Lever, Micro Assy	1	MC194	141	2 4539 19700	Washer		2
MG139 141 2 459 1590 Cushien, Molor 2 MG197 141 2 749 2590 Interlock MG139 141 2 1599 9070 Rest Button 2 MG199 141 2 749 2590 Rest Button 2 MG199 141 2 749 2 749 2 749			Button Lever Assy	1	MC195	141	2 7439 17200	Arm, Record Lock		1
MG136 141 2 8139 07300 Counter Support 1								Spring, Record Lock Arm		1
Montage 141 2 1619 90700 Counter								Arm, Record Remove		1
Moration 141 2 still 9 person 2 still 9 per			• •	· · · · · · · · · · · · · · · · · · ·				Interlock		1
Morita 14 2 5499 19700 Counter 1 Moza 14 0 3159 07300 Richard Morita Moza 14 2 549 19800 Richard Moza 14 2 549 19800 Richard Moza 14 2 549 19800 Richard Moza								-		1
Mort				•						1
Moritival 141 2 5649 98600 Self Counter 1				•						1
MC141 141 2 7419 7800 Species, Witch Lever				•					B8]	1
MC142 469 07050 42 689 70580				•						2
MC143 14 2 859 9 0500 Sorgin, Gassette Lob 1				•				•		1
MC144 14 2 8529 60100 Spring, Cassette Lock			•	•				· ·		1
MC146 14 2 3169 3700 Batter Spindle, Micro 1 MC299 14 2 3719 38600 Interlock, F.F. REC MC146 14 2 3169 3700 Bracket, Sub Chassis 1 MC210 14 2 3719 38600 Interlock, F.F. REC MC146 14 2 3169 3700 Bracket, Sub Chassis 1 MC211 14 2 3719 38600 MC147 M				•						1
MC164 141 2 6129 05500 Button Spinnle, Micro 1				•						1
MC146				•						1
Morar Mora				•				•		1
MC148			· · · · · · · · · · · · · · · · · · ·	=						
MC150				•				•		1
MC151			•	•				· -		1
MC152				•						1
MC152				•				=		2
MC153 141 0 5219 08600 Flywheel Assy 1 MC217 141 2 3529 23800 Spacer, F.F. Actuate				•						1
MC155	MC153 14			-						2
MC155			•							1
MC165										1
MC157			_							2
MC158 141 2 7419 76400 Stp Lever 1 MC222 141 2 3529 35600 Spacer, Head MC159 141 2 8529 06000 Spring, Eject Senser 1 MC223 141 2 28519 82900 Spring, Azimuth MC160 141 2 7539 11100 Bush, Eject Lever 1 MC225 141 0 3759 00700 Head Base Assy MC162 141 2 7419 76200 Eject Senser 1 MC225 141 0 3759 00700 Head Base Assy MC162 141 2 7419 76200 Eject Lever 1 MC225 141 0 3759 00700 MC163 141 0 3119 17804 Completed Chassis 1 MC227 141 2 8549 82800 Spring, Pinch Roller Sayler MC163 141 0 7439 07700 MC164 141 2 4539 20400 Washer 1 MC228 141 2 8549 82800 Spring, Pinch Roller MC165 141 0 7439 07700 MC166 141 2 8549 82800 Spring, Review 1 MC229 141 2 3759 03800 Erase Head (Micro) (HD4) MC166 141 2 8549 82800 Spring, Review 1 MC230 141 2 3759 03800 Erase Head Base MC167 141 2 8549 82500 Spring, Idler Arm 1 MC231 141 2 8549 34300 Spring, Firase Head MC168 141 0 5559 05501 Idler Arm 1 MC231 141 2 8549 34300 Spring, Pinch Roller MC170 141 2 4539 14500 Spacer, Idler Arm 1 MC231 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler Arm 1 MC231 141 2 1219 20700 Chassis Plate MC173 141 2 5519 31600 Spacer, Secondary Gear 1 MC235 141 2 7319 50200 Spacer, Review MC177 141 2 5519 31900 Spacer, Second Gear 1 MC235 141 2 7319 50200 Spacer, Record Actuate Arm MC176 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Spacer, Record Actuate Arm MC176 141 2 4539 18000 Washer 1 MC241 141 2 3529 3500 Masher 1 MC241			· · · · · ·	1						1
MC160 141 2 2 7539 11100 MC161 141 2 7419 76200 MC162 141 2 7419 76200 MC163 141 0 3119 17800 MC163 141 0 3119 17800 MC164 141 2 4539 20400 MC165 141 0 3119 17800 MC165 141 0 7439 07700 MC165 141 0 7439 07700 MC166 141 0 7439 07700 MC167 141 0 8519 82000 MC168 141 0 7439 07700 MC168 141 0 7439 07700 MC169 141 2 8519 82000 MC169 141 0 8519 82000 MC170 141 0 8519 820	MC158 14	1 2 7419 76400	Stop Lever	1	MC222	141				1
MC160 141 2 7539 11100 Bush, Eject Lever 1 MC224 141 2 4219 02900 Screw MC161 141 2 7419 76100 Eject Senser 1 MC225 141 0 3759 00700 Pinch Roller Assy MC162 141 0 3119 17804 Completed Chassis 1 MC227 141 2 8549 08200 Spring, Pinch Roller MC163 141 0 3119 17804 Completed Chassis 1 MC228 141 2 4739 08600 Nut MC166 141 2 8519 82300 Spring, Review 1 MC228 141 2 3759 03800 Erase Head (Micro) [HD4] MC166 141 2 8519 82600 Spring, Review 1 MC228 141 2 8759 03800 Erase Head Micro) [HD4] MC167 141 2 8519 82600 Spring, Idler Arm 1 MC231 141 2 8759 03800 Erase Head Base MC168 141 0 3559 05500 Spring, Idler Arm 1 MC231 141 2 8759 03800 Spring, Erase Head MC168 141 2 3529 23500 Spacer, Idler Arm 1 MC231 141 2 8519 79800 Spring, Pinch Roller MC170 141 2 4539 14900 Spacer, Idler Arm 1 MC233 141 2 8519 79800 Spring, Pinch Roller MC171 141 2 5519 31600 Take-up Idler MC171 141 2 5519 31600 Take-up Idler MC173 141 2 5529 32900 Spacer, Second Gear 1 MC238 141 2 7519 56100 Spacer MC174 141 2 3529 23900 Spacer, Rewind Gear 1 MC238 141 2 7439 26400 Review Arm MC175 141 2 5529 31900 Spacer, Rewind Gear 1 MC238 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 26400 Review Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC248 141 2 8519 87000 Spacer, Rec ACT Arm MC177 141 2 8519 83000 Spring, Line Gear 1 MC248 141 2 8519 87000 Spring, Record Arm MC177 141 2 8519 83000 Spring, Line Gear 1 MC248 141 2 8519 87000 Spring, Record Arm MC177 141 2 8519 83000 Spring, Line Gear 1 MC248 141 2 8519 87000 Spring, Record Arm MC177 141 2 8519 83000 Spring, Line Gear 1 MC248 141 2 8519 87000 Spring, Record Arm MC178 141 2 5529 13000 Frewind Gear 1 MC24 141 2 8519 87000 Spring, Record Arm MC178 141 2 5529 13000 Frewind Gear 1 MC24 141 2 8519 87000 Spring, Record Arm MC180 141 2 5519 83000 Spring, Rewind Gear 1 MC24 101 3 1302 00611 Screw, Pan Hd. +M2.0x8 MC181 141 2 7439 93000 Spring, Rewind Lever Assy 1 MC26 101 3 1702 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 80000 Spring, Record Actu	MC159 14	1 2 8529 06000	Spring, Eject Senser	1						1
MC162			Bush, Eject Lever	1						1
MC163 141 0 3119 17804 Completed Chassis 1 MC227 141 2 8549 08200 Spring, Pinch Roller MC164 141 2 4539 20400 Washer 1 MC228 4 2429 71940 Erase Head (Micro) (HD4) MC165 141 0 7439 07708 Review Arm Assy 1 MC229 141 2 4179 04600 MC166 141 2 8519 82300 Spring, Review 1 MC230 141 2 8559 03800 Erase Head Base MC167 141 2 8519 82600 Spring, Idler Arm 1 MC231 141 2 8539 43300 Spring, Erase Head MC168 141 0 5559 05501 Ulder Arm Assy 1 MC223 141 2 8539 43300 Spring, Erase Head MC168 141 2 3529 23500 Spacer, Idler Arm 1 MC231 141 2 8519 79800 Spring, Pinch Roller MC170 141 2 4539 14900 Washer 1 MC234 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC235 141 0 7419 30500 Slide Base Assy MC172 141 2 5519 31900 Spacer, Second Gear 1 MC236 141 2 4539 18100 Washer MC173 141 2 5529 12900 Spacer, Rewind Gear 1 MC238 141 2 7319 50200 Spacer Rewind Gear MC176 141 0 7439 07501 Line Gear 1 MC241 141 2 3529 35200 Spacer, Recond Actuate Arm MC177 141 2 8519 38000 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, Actor Arm MC178 141 2 5519 31800 Primary Gear 1 MC240 141 2 4539 18100 Washer MC180 141 2 5519 31800 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, Recond Actuate Arm MC178 141 2 5519 31800 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Actuate Arm MC178 141 2 5519 31800 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Arm MC179 141 2 4539 18300 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Arm MC180 141 2 5519 31800 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Arm MC181 141 2 5529 13000 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Arm MC181 141 2 5529 31800 Primary Gear 1 MC240 141 2 7439 26400 Spring, Record Arm MC181 141 2 5529 31800 Spring, Rewind 1 MC240 141 2 7439 26400 Screw, Pan Hd. +W2_0x4 MC186 141 2 7319 50201 Second Actuate Arm MC186 141 2 7319 30300 Spring, Rewind 1 MC240 141 2 7439 26400 Screw, Pan Hd. +W2_0x6 MC186 141 2 7319 50200 Spring, Rewind Lever Assy 1 MC240 141 2 6500 8811 Screw, Pan Hd. +W2_0x8 MC186 141 2 7319 50400			Eject Senser	1				Head Base Assy		1
MC164 141 2 4539 20400 Washer 1 MC228 4 2429 71940 Erase Head (Micro [HD4] MC165 141 0 7439 07700 Review Arm Assy 1 MC229 141 2 4179 04600 Nut Arm Assy 1 MC229 141 2 8759 03800 Erase Head (Micro [HD4] MC161 141 2 8519 82300 Spring, Review 1 MC230 141 2 859 43300 Spring, Erase Head Base MC167 141 2 8519 82600 Spring, Idler Arm 1 MC231 141 2 8539 43300 Spring, Erase Head Base MC168 141 0 7559 05501 Idler Arm Assy 1 MC232 141 2 8519 97800 Spring, Frase Head MC169 141 2 8529 23500 Spacer, Idler Arm Mc289 1 MC233 141 2 8519 97800 Spring, Pinch Roller MC170 141 2 4539 14900 Washer 1 MC234 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC234 141 2 1219 20700 Spring, Pinch Roller MC171 141 2 5519 31600 Take-up Idler 1 MC235 141 0 7419 30500 Slide Base Assy MC172 141 2 5519 31600 Washer 2 MC236 141 2 7519 56100 Spacer MC173 141 2 559 13900 Spacer, Rewind Gear 1 MC238 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Rewind Gear 1 MC238 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 26400 Review Arm MC177 141 2 8519 38600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, Accord Arm MC179 141 2 5519 31800 Washer 1 MC241 141 2 4599 08800 Washer 1 MC241 141 2 4599 0880			Eject Lever	1	MC226	141	0 5419 03600	Pinch Roller Assy		1
MC165 141 0 7439 07700 Review Arm Assy 1 MC229 141 2 4179 04600 Nut MC166 141 2 8519 82300 Spring, Review 1 MC230 141 2 8539 93300 Spring, Earse Head Base MC167 141 2 8519 82600 Spring, Idler Arm 1 MC231 141 2 8539 93300 Spring, Earse Head MC168 141 0 5559 05501 Idler Arm Assy 1 MC232 141 2 4729 01000 Lug MC169 141 2 3529 23500 Spacer, Idler Arm 1 MC231 141 2 8519 79800 Spring, Pinch Roller MC170 141 2 4539 14900 Washer 1 MC231 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC231 141 0 7419 30500 Slide Base Assy MC172 141 2 5519 31900 Secondary Gear 1 MC236 141 2 4539 18100 Washer 2 MC236 141 2 4539 18100 Washer 2 MC236 141 2 7519 56100 Spacer, Second Gear 1 MC231 141 2 7519 56100 Spacer MC173 141 2 5529 12900 Spacer, Rewind Gear 1 MC238 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Record Actuate Arm MC177 141 2 8519 38000 Spring, Line Gear 1 MC241 141 2 819 8700 Spring, Record Arm MC178 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 819 8700 Spring, Record Arm MC178 141 2 5529 13000 Primary Gear 1 MC240 141 2 7439 29400 Record Actuate Arm MC178 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 819 8700 Spring, Record Arm MC180 141 2 5529 13000 Primary Gear 1 MC240 141 2 7439 29400 Spring, Record Arm MC180 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 819 8700 Spring, Record Arm MC180 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 819 8700 Spring, Record Arm MC181 141 2 5529 13000 Primary Gear 1 MC240 141 2 7439 29400 Screw, Pan Hd. +NZ.0x5 MC181 141 2 8519 83000 Spring, Rewind 1 MC23 101 3 1302 00411 Screw, Pan Hd. +NZ.0x6 MC181 141 2 8519 84000 Spring, Rewind Lever Assy 1 MZ5 101 3 1302 00811 Screw, Pan Hd. +NZ.0x8 MC186 141 2 8519 84900 Spring, Rewind Lever 1 MZ5 101 3 1702 00811 Screw, Pan Hd. +NZ.0x4 MC186 141 2 8519 84900 Spring, Rewind Lever 1 MZ5 101 3 1702 00811 Screw, Pan Hd. +NZ.0x4 MC187 141 2 8519 84900 Spring, Rewind Lever 1 MZ5 101 3 1702 00811 Screw, Pan Hd. +NZ.0x4 MC188 141 2 539 80800 Washer 1 M			Completed Chassis	1	MC227	141	2 8549 08200	Spring, Pinch Roller		1
MC166	MC164 14	1 2 4539 20400		1	MC228		4 2429 71940	Erase Head (Micro) [HD4]		1
MC167 141 2 8519 82600			•	1	MC229	141	2 4179 04600	Nut		1
MC168 141 0 5559 05501 Idler Arm Assy 1 MC232 141 2 4729 01000 Lug MC169 141 2 3529 23500 Spacer, Idler Arm 1 MC233 141 2 8519 79800 Spring, Pinch Roller MC170 141 2 4539 14900 Washer 1 MC233 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC233 141 0 7419 30500 Side Base Assy MC172 141 2 4539 17500 Washer 2 MC236 141 2 4539 18100 Washer MC173 141 2 5519 31900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Rewind Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 33900 Spacer, Rewind Gear 1 MC239 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Spacer, Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear MC178 141 2 5519 31800 Washer 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 31800 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5529 13000 Primary Gear 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 31800 Rewind Idle Gear 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 33000 Spring, Rewind Gear 1 MC243 141 2 4579 03800 Washer MC181 141 2 5529 33000 Rewind Idle Gear 1 MC243 141 2 4579 03800 Washer MC181 141 2 5519 30000 Prin, Rewind Gear 1 MC243 141 2 4579 03800 Washer MC181 141 2 5519 30000 Rewind Idle Gear 1 MC243 141 2 4579 03800 Washer MC182 141 2 8519 83000 Spring, Rewind 1 MC243 141 2 5529 03800 Screw, Pan Hd. +W2.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ2 101 3 1302 00811 Screw, Pan Hd. +M2.0x6 MC182 141 2 8519 84000 Spring, Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +M2.0x8 MC188 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 80000 Washer 1 MZ9 101 3 1302 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 80000 Washer 1 MZ9 101 3 1302 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 80000 Washer 1 MZ9 101 3 1302 00811 Screw, Pan Hd. +M2.0x8				1		141	2 3759 03800	Erase Head Base		1
MC169 141 2 3529 23500 Spacer, Idler Arm 1 MC233 141 2 8519 79800 Spring, Pinch Roller MC170 141 2 4539 14900 Washer 1 MC234 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC235 141 0 7419 30500 Slide Base Assy MC172 141 2 4539 137500 Washer 2 MC236 141 2 4539 18100 Washer MC173 141 2 5529 12900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Second Gear 1 MC239 141 2 7439 26400 Review Arm MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC240 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear 1 MC240 141 2 3529 35200 Spacer, REC ACT Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 8519 87700 Spring, Record Arm MC180 141 2 5529 13000 Prin Rewind Gear 1 MC241 141 2 8519 87700 Spring, Record Arm MC181 141 2 5529 13000 Prin, Rewind Gear 1 MC24 141 2 8519 8700 Washer MC181 141 2 5529 13000 Prin, Rewind Gear 1 MC24 141 2 8519 8700 Spring, Record Arm MC181 141 2 5529 13000 Prin, Rewind Gear 1 MC24 141 2 8519 8700 Spring, Record Arm MC181 141 2 5529 13000 Prin, Rewind Gear 1 MC24 101 3 1302 00411 Screw, Pan Hd. +W2.0x4 MC181 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00511 Screw, Pan Hd. +W2.0x8 MC183 141 2 8519 84000 Spring, Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +W2.0x8 MC185 141 2 8519 84000 Spring, Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +W2.0x8 MC186 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +W2.0x8 MC186 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M2.0x10 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +M2.0x4 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan HdM2.0x4			· · · · ·					Spring, Erase Head		1
MC170 141 2 4539 14900 Washer 1 MC234 141 2 1219 20700 Chassis Plate MC171 141 2 5519 31600 Take-up Idler 1 MC235 141 0 7419 30500 Slide Base Assy MC172 141 2 4539 17500 Washer 2 MC236 141 2 4539 18100 Washer MC173 141 2 5519 31900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC238 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 31800 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC180 141 2 5529 13000 Primary Gear 1 MC243 141 2 4579 03800 Washer MC180 141 2 5529 13000 Prin Rewind Idle Gear 1 MC243 141 2 4579 03800 Washer MC181 141 2 8519 83000 Spring, Rewind Gear 1 MC24 101 3 1302 00511 Screw, Pan Hd. +M≥0x4 MC181 141 2 8519 83000 Spring, Rewind Lever Assy 1 MZ2 101 3 1302 00811 Screw, Pan Hd. +M≥0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 00811 Screw, Pan Hd. +M≥0x8 MC186 141 2 8519 84000 Spring, Rewind Lever Assy 1 MZ5 101 3 1302 00811 Screw, Pan Hd. +M≥0x8 MC186 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M≥0x8 MC186 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M≥0x8 MC187 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M≥0x8 MC188 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +M≥0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +M≥0x4			•					•		1
MC171 141 2 5519 31600 Take-up Idler 1 MC235 141 0 7419 30500 Slide Base Assy MC172 141 2 4539 17500 Washer 2 MC236 141 2 4539 18100 Washer MC173 141 2 5519 31900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC239 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Spacer, Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear Arm Assy 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC241 141 2 3529 35200 Spacer, Record Arm MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 31800 Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +WZ.0x4 MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +WZ.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +WZ.0x8 MC183 141 2 4539 23500 Rewind Lever Assy 1 MZ5 101 3 1302 00411 Screw, Pan Hd. +WZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +WZ.0x8 MC186 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +WZ.0x8 MC186 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +WZ.0x8 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +WZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. +WZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. +WZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan HdMZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan HdMZ.0x4	MC170 14	2 3529 23500								1
MC172 141 2 4539 17500 Washer 2 MC236 141 2 4539 18100 Washer Spacer MC173 141 2 5519 31900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC239 141 2 7339 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7339 29400 Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC180 141 2 5519 31800 Rewind Idle Gear 1 MC241 141 2 4579 03800 Washer MC180 141 2 5529 13000 Rewind Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +N≥.0x4 MC181 141 2 8519 83000 Spring, Rewind Gear 1 MZ2 101 3 1302 00811 Screw, Pan Hd. +N≥.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +N≥.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 00811 Screw, Pan Hd. +N≥.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1302 00811 Screw, Pan Hd. +N≥.0x8 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +N≥.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 00811 Screw, Pan Hd. +N≥.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +N≥.0x8 MC188 141 2 4539 08000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +N≥.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan Hd. +N≥.0x8 MC188 141 2 4539 08000 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Pan HdN≥.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan HdN≥.0x4	MC171 14	1 2 4539 14900								1
MC173 141 2 5519 31900 Secondary Gear 1 MC237 141 2 7519 56100 Spacer MC174 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC239 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5529 13000 Pin, Rewind Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +W2.0x4 MC181 141 2 5529 13000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +W2.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +W2.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1303 00411 Screw, Pan Hd. +M2.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +M2.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 00811 Screw, Pan Hd. +M3.0x4 MC187 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M2.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Bind Hd. +M2.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan HdM2.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan HdM2.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan HdM2.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +M2.0x4	MC172 14	1 2 3519 31600						•		1
MC174 141 2 5529 12900 Spacer, Second Gear 1 MC238 141 2 7319 50200 Select Slider MC175 141 2 3529 23900 Spacer, Rewind Gear 1 MC239 141 2 7439 26400 Review Arm MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC179 141 2 5519 31800 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5529 13000 Pin, Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +NZ.0x4 MC181 141 2 5529 13000 Spring, Rewind 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +NZ.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00511 Screw, Pan Hd. +MZ.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +MZ.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +MZ.0x8 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +MZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 00811 Screw, Pan Hd. +MZ.0x8 MC187 141 2 8519 84900 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +MZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Bind Hd. +MZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan HdMZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Pan HdMZ.0x8	MC173 14	1 2 5510 21000								1
MC175 141 2 3529 23900	MC174 14	1 2 5520 12000								1
MC176 141 0 7439 07501 Line Gear Arm Assy 1 MC240 141 2 7439 29400 Record Actuate Arm MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 31800 Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +WZ.0x4 MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +WZ.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +WZ.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +WZ.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +WZ.0x8 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +WZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 00811 Screw, Bind Hd. +WZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ8 101 3 2502 00811 Screw, Cyllinder HdMZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC175 14:	1 2 3529 12900		•						1
MC177 141 2 8519 83600 Spring, Line Gear 1 MC241 141 2 3529 35200 Spacer, REC ACT Arm MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 31800 Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +WZ.0x4 MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +WZ.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +WZ.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 00811 Screw, Pan Hd. +WZ.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +WZ.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +WZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +WZ.0x8 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder HdMZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC176 141	1 0 7/30 07501		1						1
MC178 141 2 5519 32000 Primary Gear 1 MC242 141 2 8519 87700 Spring, Record Arm MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer MC180 141 2 5519 31800 Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +WZ.0x4 MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +WZ.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +WZ.0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +WZ.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +WZ.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +WZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +WZ.0x8 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder HdMZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC177 141	2 8519 83600	-	1						1
MC179 141 2 4539 18300 Washer 1 MC243 141 2 4579 03800 Washer	MC178 141	2 5519 32000		1						1
MC180 141 2 5519 31800 Rewind Idle Gear 1 MZ1 101 3 1302 00411 Screw, Pan Hd. +W2.0x4 MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +W2.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +W2.0x8 MC183 141 2 4539 23500 Washer, 2.1x5.5x0.5 1 MZ4 101 3 1302 00611 Screw, Pan Hd. +W2.0x8 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +W3.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +W2.0x8 MC186 141 2 7319 50201 Select Slider	MC179 141	2 4539 18300	-							1
MC181 141 2 5529 13000 Pin, Rewind Gear 1 MZ2 101 3 1302 00511 Screw, Pan Hd. +W2.0x5 MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +W2.0x8 MC183 141 2 4539 23500 Washer, 2.1x5.5x0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +M2.6x6 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +M3.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +M2.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +M2.0x8 MC187 141 2 8519 84900 Spring, Record Actuate<	MC180 141	2 5519 31800							2 Dv 4	1
MC182 141 2 8519 83000 Spring, Rewind 1 MZ3 101 3 1302 00811 Screw, Pan Hd. +MZ 0x8 MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +MZ 6x6 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +MZ 0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Pan Hd. +MZ 0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +MZ 0x8 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder Hd. -MZ 0x8 MC188 141 2 4539 08000 Washer	MC181 141	2 5529 13000								12
MC183 141 2 4539 23500 Washer, 2.1X5.5X0.5 1 MZ4 101 3 1302 60611 Screw, Pan Hd. +MZ6.66 MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +MZ.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Bind Hd. +MZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +MZ.0x10 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder Hd. -MZ.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC182 141	2 8519 83000		· i				-		5 3
MC184 141 0 7419 30700 Rewind Lever Assy 1 MZ5 101 3 1303 00411 Screw, Pan Hd. +M3.0x4 MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Bind Hd. +M2.0x8 MC186 141 2 8519 84900 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +M2.0x10 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder Hd. -M2.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +M2.0x4	MC183 141	2 4539 23500	- T	1				-		
MC185 141 2 8519 84000 Spring, Rewind Lever 1 MZ6 101 3 1702 00811 Screw, Bind Hd. +MZ.0x8 MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +MZ.0x10 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder Hd. -M2.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC184 141	0 7419 30700		1						4 2
MC186 141 2 7319 50201 Select Slider 3 MZ7 101 3 1702 01011 Screw, Bind Hd. +MZ.0x10 MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder Hd. -M2.0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC185 141	2 8519 84000	•	1						1
MC187 141 2 8519 84900 Spring, Record Actuate 1 MZ8 101 3 2502 00811 Screw, Cyllinder HdM2 0x8 MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 +MZ.0x4	MC186 141	2 7319 50201		3						1
MC188 141 2 4539 08000 Washer 1 MZ9 103 3 1302 00418 Screw, Pan Hd. Tapping-2 + MZ.0x4	MC187 141	2 8519 84900		1						1
110100 141 0	MC188 141	2 4539 08000	-	1						1
1 MZ10 103 3 1302 00511 Screw, Pan Hd. Tapping-2 +M≥.0x5	MC189 141	0 8429 01301	Record Actuater Assy	1			3 1302 00511			4
MC190 141 2 4579 03900 Washer 1 MZ11 103 3 1302 60511 Screw, Pan Hd. Tapping-2 +MZ.6x5	MC190 141	2 4579 03900	Washer	1						6
MC191 141 2 7439 17000 REW Interlock 1 MZ12 103 3 1302 60611 Screw, Pan Hd. Tapping-2 +M≥.6x6	MC191 141	2 7439 17000	REW Interlock	1						2

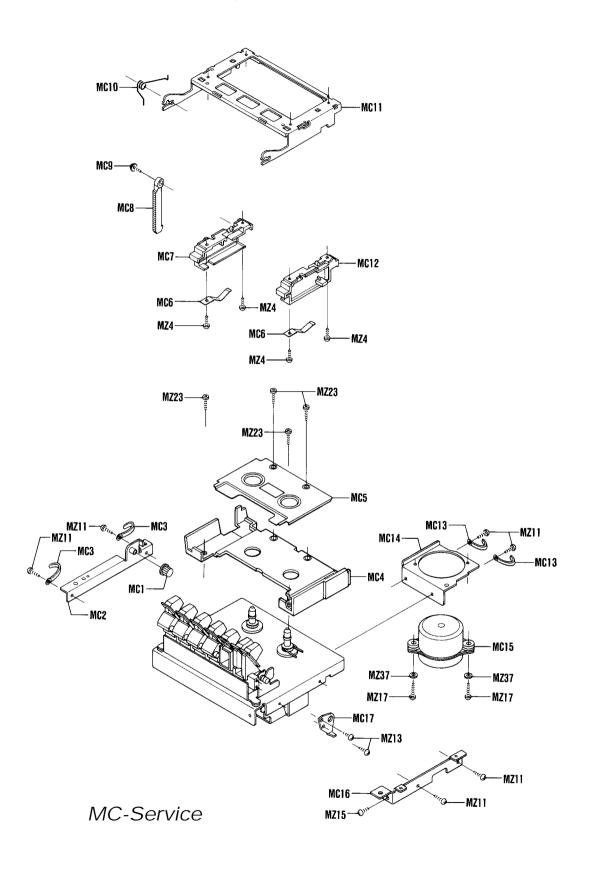
MECHANISM PARTS LIST (Continued)

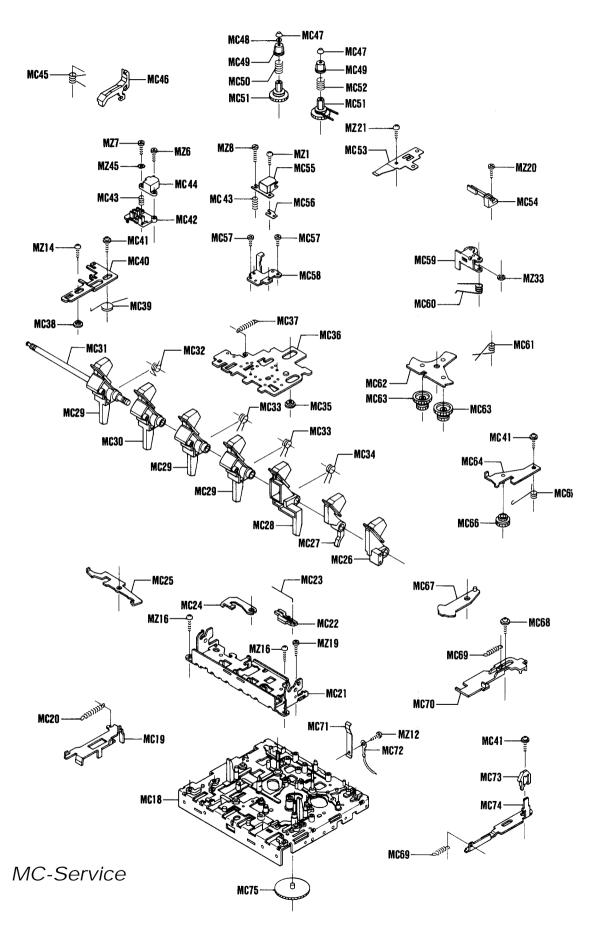
Ref. No.	Parts No.	Description	on	Q'ty
MZ13	103 3 1302 60811	Screw, Pan Hd. Tapping-2	+M2.6x8	2
MZ14	103 3 1302 61011	Screw; Pan Hd. Tapping-2	+M2.6x10	1
MZ15	103 3 1303 00611	Screw, Pan Hd. Tapping-2	+M3.0x6	1
MZ16	103 3 1303 00811	Screw, Pan Hd. Tapping-2	+M3.0x8	2
MZ17	103 3 1303 01411	Screw, Pan Hd. Tapping-2	+M3.0x14	2
MZ18	103 3 1702 00811	Screw, Bind Hd. Tapping-2	+M2.0x8	1
MZ19	103 3 1702 60811	Screw, Bind Hd. Tapping-2	+M2.6x8	1
MZ20	104 3 1702 00611	Screw, Bind Hd. Tapping-3	+M2.0x6	1
MZ21	143 3 1302 60811	Screw, Pan Hd. Tapping-B	+M2.6x8	1
MZ22	143 3 1303 01011	Screw, Pan Hd. Tapping-B	+M3.0x10	1
MZ23	143 3 1702 60818	Screw, Bind Hd. Tapping-B	+M2.6x8	4
MZ24	127 3 1314 01613	PI Screw, Pan Hd1	+M1.4x1.6	2
MZ25	127 3 1314 02013	PI Screw, Pan Hd1	+M1.4x2.0	3
MZ26	127 3 1314 03013	PI Screw, Pan Hd1	+M1.4x3.0	3
MZ27	128 3 1314 05018	PI Screw, Pan Hd2	+M1.4x5.0	1
MZ28	128 3 1317 02018	PI Screw, Pan Hd2	+M1.7x2.0	3
MZ29	128 3 1317 04013	PI Screw, Pan Hd2	+M1.7x4.0	1
MZ30	112 3 1301 20082	E Ring	M1.2	11
MZ31	112 3 1301 50082	E Ring	M1.5	9
MZ32	112 3 1302 00040	E Ring	M2.0	3
MZ33	112 3 1302 00082	E Ring	M2.0	4
MZ34	112 3 1302 50040	E Ring	M2.5	1
MZ35	112 3 1304 00040	E Ring	M4.0	3
MZ36	110 3 1202 00013	Finished Washer	M2.0	1
MZ37	110 3 1203 00013	Finished Washer	M3.0	2
MZ38	110 3 2101 70013	Spring Washer-2	M1.7	1
MZ39	110 3 2102 00081	Spring Washer-2	M2.0	1
MZ40	110 3 1102 00018	Sm. Round Washer	M2.0	1
MZ41	110 3 1102 00013	Sm. Round Washer	M2.0	1
MZ42	110 3 9210 40024	Nylon Washer	M2.1x4.0x0.2	2
MZ43	110 3 9210 50024	Nylon Washer	M2.1x5.0x0.2	1
MZ44	110 3 9260 60025	Mylar Washer	M2.1x6.0x0.2	1
MZ45	110 3 3202 00082	Ext. Star Washer	M2.0	1
MZ46	106 3 1102 00123	Hex. Nut-1	M2.0	1

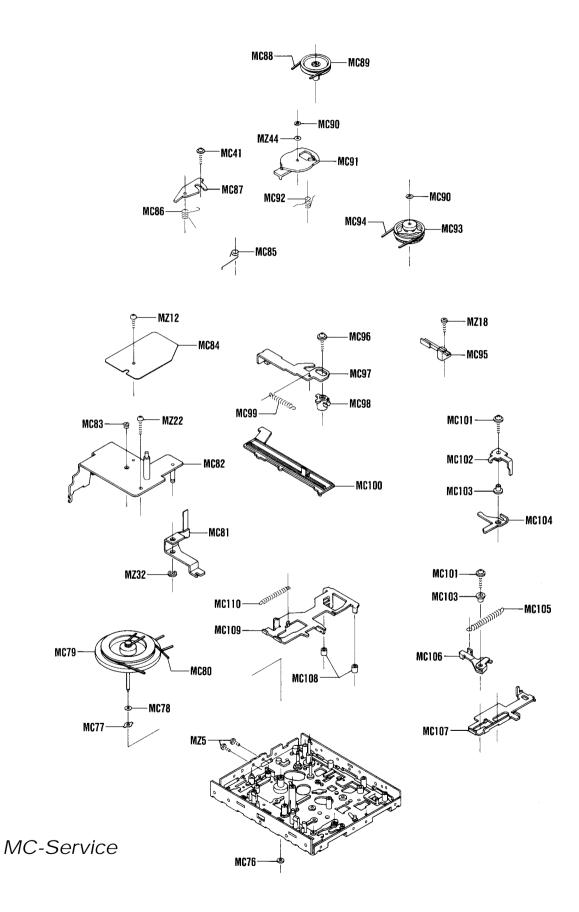
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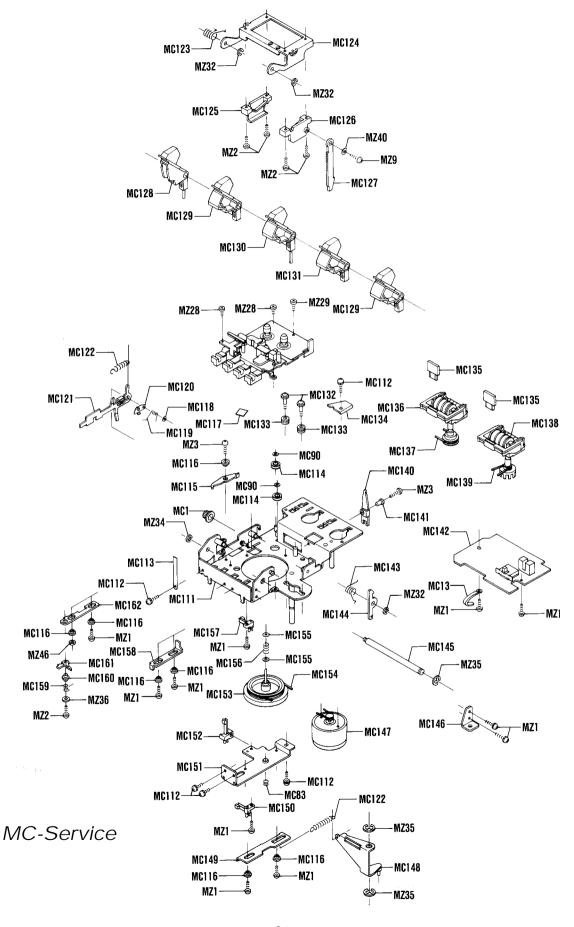
- Parts order must contain Model Number, Part Number and Description.
 Ordering quantity of screws and resistors must be multiple of
- 10 pcs.

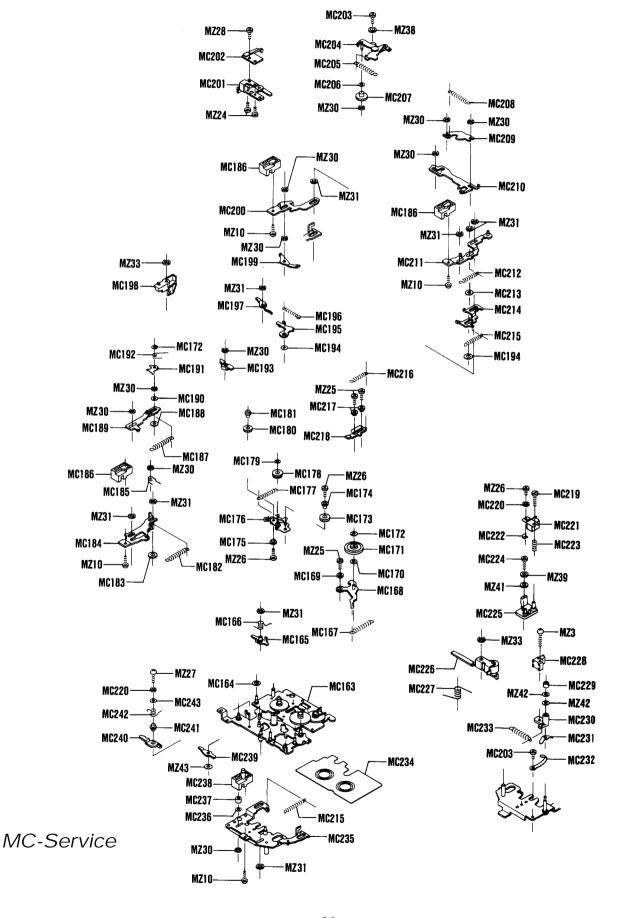
MECHANISM EXPLODED VIEW











P.C.BOARD PARTS LIST

Ref. No.	Parts No.	Description	Q'ty	Ref. No.	Parts No.	De	escription	ı		Q'ty
	AMPLIFIER P.C	.B. ASSY		0203	203 5 5100 53660	Transistor, 2SC 536				1
PCB1	4 1329 77352	Amplifier P.C.B. Assy	1	Q204	4 2039 70430	Transistor, 2SC 181				1
	4 2369 70740	RT Pin	2	Q205	4 2039 70430	Transistor, 2SC 181	5			1
	4 2439 71570	Flat Wire	1	Q206	203 5 4921 01275	Transistor, 2SD1012				1
	101 3 1302 60611	Screw, Pan Hd. +M2.6x6	4	Q302	203 5 5100 53660	Transistor, 2SC 536				1
	103 3 1303 01018	Screw, Pan Hd. Tapping-2 +M3.0x10	2	Q303	203 5 5100 53660	Transistor, 2SC 536				1
	103 3 1703 00811	Screw, Bind Hd. Tapping-2 +M3.0x8	4	Q304	203 5 5100 69362	Transistor, 2SC 693				1
	141 2 3169 18100	Gear Bracket	1	Q305	4 2039 70431	Transistor, 2SC 181				1
	141 2 3529 08600	Spacer, REC Lock	4	Q306	203 5 5100 53670	Transistor, 2SC 536				1
	141 2 3679 30300	Jack Plate	1	Q307	203 5 5100 53660	Transistor, 2SC 536				1
	141 2 4729 04700	Staple, 10mm	8	Q308	203 5 5100 53660	Transistor, 2SC 536				1
	141 2 4729 05800	Staple, 15mm	7	Q309	203 5 6900 40060	Transistor, 2SD400				1
	141 2 5519 25400	Gear	2	Q310	203 5 4570 73460	Transistor, 2SD 734				1
	141 2 7319 50400	Switch Plate	2	Q311	203 5 4570 73460	Transistor, 2SD 734				1
	141 2 7519 35000	Shaft, Knob	1	Q312	203 5 5100 53660	Transistor, 2SC 536				1
CN1	4 2359 75177	Connector 5P Assy	1	Q313	203 5 5100 53660	Transistor, 2SC 536				1
CN2	4 2369 73390	Connector 6P	1	IC301	4 2069 71390	IC, MB3106				1
CN3	4 2369 73400	Connector 10P	1	IC302	206 5 0793 16020	IC, LA 3160T				1
CN4	4 2369 73360	Connector 3P	1	IC303	206 5 0793 16020	IC, LA 3160T				1
CN5	4 2369 73370	Connector 4P	1	IC304	4 2069 71360	IC, TA7658P				1
CN6	4 2369 73370	Connector 4P	1	IC305	206 5 1624 18510	IC, LA4185				1
S2	4 2319 73901	Slide Switch (Record/Play, Compact)	1	C101	CD1 0 4500 0002V	Electrolytic	$0.1 \mu F$	50V		1
S3	4 2319 73901	Slide Switch (Record/Play, Micro)	1	C102	CD1 0 5100 0000V	Electrolytic	1μF	10V		1
S4	4 2319 75090	Rotary Switch (Function)	1	C103	CD4 7 6100 0001V	Electrolytic	47μ F	10V		1
S5	4 2319 75080	Slide Switch (Tape Select, Micro)	1	C104	CC3 9 1500 KE00C	Ceramic	390pF	50V	$\pm 10\%$	1
S6	4 2319 72160	Slide Switch (Tape Select, Compact)	1	C105	CC2 2 2500 KE00C	Ceramic	0.0022μ F	50V	$\pm 10\%$	1
J1	4 2359 73470	1P Jack (Mike, Left)	1	C106	CD4 7 5100 0000V	Electrolytic	4.7μ F	10V		1
J2	4 2359 73470	1P Jack (Mike, Right)	1	C107	CD1 0 5100 0000V	Electrolytic	1 μ F	10V		1
J3	4 2359 71780	1P Jack (Mix. Mike)	1	C108	CC1 0 2500 KE00C	Ceramic	$0.001 \mu F$	50V	$\pm 10\%$	1
J4	4 2359 75380	1P Jack (Headphones)	1	C109	CC3 9 1500 KE00C	Ceramic	390pF	50V	$\pm 10\%$	1
J5	4 2359 73470	1P Jack (Ext. Speaker, Left)	1	C110	CD4 7 6100 0001V	Electrolytic	47μ F	10V		1
J6	4 2359 73470	1P Jack (Ext. Speaker, Right)	1	C111	CM27 3500 K00SV	Mylar	0.027μ F	50V	$\pm 10\%$	1
L101	4 2729 70480	Coil (33mH)	1	C112	CD4 7 5100 0000V	Electrolytic	4.7μ F	10V		1
L102	4 2559 70031	Coil (33mH)	1	C113	CD1 0 5100 0000V	Electrolytic	1 μ F	10V		1
L103	4 2729 70500	Inductor (10mH)	1	C114	CM2 2 2500 K00SV	•	0.0022μ F	50V	±10%	1
L104	4 2729 70500	Inductor (10mH)	1	C115	CC3 9 1500 KE00C	Ceramic	390pF	50V	$\pm 10\%$	1
L201	4 2729 70480	Coil (33mH)	1	C116	CD4 7 6100 0001V	Electrolytic	47μF	1C/		1
L202	4 2559 70031	Coil (33mH)	1	C117	CM27 3500 K00SV	Mylar	0.027μ F	50V	±10%	1
L203	4 2729 70500	Inductor (10mH)	1	C118	CD4 7 5100 0000V	Electrolytic	4.7μF	1¢/		1
L204	4 2729 70500	Inductor (10mH)	1	C119	CC1 0 2500 KE00C	Ceramic	0.001μ F	5(V	±10%	1
L301	4 2539 70301	Micro Inductor (100 μ H)	1	C120	CC2 4 1500 JD00C	Ceramic	240pF	5(V	± 5%	1
L302	4 2539 70301	Micro Inductor (100μH)	1	C121	CC4 7 1500 KE00C	Ceramic	470pF	50/	$\pm 10\%$	1
L303	4 2539 70301	Micro Inductor (100μH)	1	C122	CD4 7 4100 0000V	Electrolytic	0.47μ F	10/		1
T301	4 2589 71820	OSC Trans (Compact)	1	C123	CD2 2 5100 0000V	Electrolytic	2.2μ F	10/		1
T302	4 2589 71850	OSC Trans (Micro)	1	C124	CC2 2 1500 KE00C	Ceramic	220pF	5(V	±10%	1
P101	4 2229 72971	Potentiometer (B-100k Ω)	1	C125	CI4 7 2250 KF00C	Boundary	0.0047μ F	2∜	±10%	1
P102	4 2229 72971	Potentiometer (B-100k Ω)	1	C126	CD1 0 5100 0000V	Electrolytic	1μF	10/		1
P201	4 2229 72971	Potentiometer (B-100k Ω)	1	C127	CD1 0 5100 0000V	Electrolytic	1μ F	10/		1
P202	4 2229 72971	Potentiometer (B-100k Ω)	1	C128	CM1 5 3500 K00SV	Mylar	0.015μ F	5(/	±10%	1
D101	202 5 9110 18820	Diode, 1S 188	1	C132	CC1 0 2500 KE00C	Ceramic	$0.001 \mu F$	50/	$\pm 10\%$	1
D102	4 2029 71440	Diode, 1SS95	1	C133	CD4 7 5100 0000V	Electrolytic	4.7μ F	10/		1
D201	202 5 9110 18820	Diode, 1S 188	1	C134	CD4 7 6100 0001V	Electrolytic	47μF	10/		1
D202	4 2029 71440	Diode, 1SS95	1	C135	CD1 0 7100 0001V	Electrolytic	$100 \mu F$	10/		1
D301	202 5 2470 13540	Diode, DS135	1	C136	CM1 5 4500 K00SV	Mylar	0.15μ F	50/	$\pm 10\%$	1
D306	202 5 3210 06810	Diode, GZA 6.8L	1	C137	CD2 2 8100 0001V	Electrolytic	2200μF	10/		1
D308	4 2029 71440	Diode, 1SS95	1	C138	CD1 0 5100 0000V	Electrolytic	1μ F	1(/		1
Q101	203 5 5100 53660	Transistor, 2SC 536	1	C139	CD1 0 5100 0000V	Electrolytic	1μF	10/		1
Q102	203 5 5100 53660	Transistor, 2SC 536	1	C140	CM2 2 3500 K00SV	Mylar	0.022μ F	5(/	±10%	1
Q103	203 5 5100 53660	Transistor, 2SC 536	1	C141	CC1 8 2500 KE00C	Ceramic	$0.0018 \mu F$	5(/	±10%	1
Q104	4 2039 70430	Transistor, 2SC 1815	1	C142	CC6 8 1500 KE00C	Ceramic	680pF	5(/	±10%	1
Q105	4 2039 70430	Transistor, 2SC 1815	1	C143	CC3 3 1500 KE00C	Ceramic	330pF	5(/	±10%	1
Q106	203 5 4921 01275	Transistor, 2SD1012	1	C144	CC3 3 1500 KE00C	Ceramic	330pF	5(/	$\pm 10\%$	1
Q201	203 5 5100 53660	Transistor, 2SC 536	1	C145	CD1 0 6100 0000V	Electrolytic	10μ F	1(/		1
Q202	203 5 5100 53660	Transistor, 2SC 536	1	C146	CD1 0 5100 0000V	Electrolytic	1μF	1(/		- 1

C147 C148 C149 C150 C152 C154 C201 C202 C203 C204 C205 C206 C207 C208 C209	CC1 5 2500 KE00C CC3 3 2500 KE00C CC3 3 2500 KE00C CC3 3 1500 KE00C CM4 7 3500 K00SV CC1 2 2500 KE00C CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C CC2 2 2500 KE00C	Ceramic Ceramic Ceramic Mylar Ceramic Electrolytic Electrolytic	0.0015μ F 0.0033μ F 0.0033μ F 330pF 0.047μ F 0.0012μ F	50V 50V	±10% ±10% ±10%	1 1	C310 C311	CD1 0 5100 0000V	Electrolytic	1μF	100		
C149 C150 C152 C154 C201 C202 C203 C204 C205 C206 C207 C208	CC3 3 2500 KE00C CC3 3 1500 KE00C CM4 7 3500 K00SV CC1 2 2500 KE00C CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	Ceramic Ceramic Mylar Ceramic Electrolytic	0.0033μ F 330 pF 0.047μ F 0.0012μ F	50V 50V	-	1	C311						1
C150 C152 C154 C201 C202 C203 C204 C205 C206 C207 C208	CC3 3 1500 KE00C CM4 7 3500 K00SV CC1 2 2500 KE00C CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	Ceramic Mylar Ceramic Electrolytic	330pF 0.047μF 0.0012μF	50V	$\pm 10\%$			CC3 3 2500 KE00C	Ceramic	0.0033μ F	50V	$\pm 10\%$	1
C152 C154 C201 C202 C203 C204 C205 C206 C207 C208	CM4 7 3500 K00SV CC1 2 2500 KE00C CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	Mylar Ceramic Electrolytic	0.047μF 0.0012μF			1	C312	CD2 2 7100 0001V	Electrolytic	220µF	10V		1
C154 C201 C202 C203 C204 C205 C206 C207 C208	CC1 2 2500 KE00C CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	Ceramic Electrolytic	0.0012μ F	50V	±10%	1	C313	CD2 2 6100 0001V	Electrolytic	22µF	10V		1
C201 C202 C203 C204 C205 C206 C207 C208	CD1 0 4500 0002V CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	Electrolytic	•			1	C314	CD2 2 7100 0001V	Electrolytic	220µF	10V		1
C202 C203 C204 C205 C206 C207 C208	CD1 0 5100 0000V CD4 7 6100 0001V CC3 9 1500 KE00C	_			±10%	1	C315	CD4 7 7100 0001V	Electrolytic	470µF	10V		1
C203 C204 C205 C206 C207 C208	CD4 7 6100 0001V CC3 9 1500 KE00C	Electrolytic	0.1μF	50V		1	C316	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1
C204 C205 C206 C207 C208	CC3 9 1500 KE00C		1μF	10V		1	C317	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1
C205 C206 C207 C208		Electrolytic	47μF	10V		1	C318	CD1 0 7160 0001V	Electrolytic	100μF	16V		1
C206 C207 C208	CC2 2 2500 KE00C	Ceramic	390pF		±10%	1	C319	CD1 0 8100 0001V	Electrolytic	1000μF	10V		1
C207 C208		Ceramic	$0.0022 \mu F$	50V	±10%	1	C320	CD4 7 7100 0001V	Electrolytic	470μF	10V		1
C208	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1	C321	CD3 3 7160 0001V	Electrolytic	330μF	16V		1
	CD1 0 5100 0000V	Electrolytic	1μF	10V		1	C322	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
6209	CC1 0 2500 KE00C	Ceramic	0.001μF		±10%	1	C323	CD1 0 7100 0001V	Electrolytic	100μF	10V		1
	CC3 9 1500 KE00C	Ceramic	390pF	50V	±10%	1	C325	CD1 0 7100 0000V	Electrolytic	100μF	10V		1
C210	CD4 7 6100 0001V	Electrolytic	47μF	10V		1	C326	CD1 0 7100 0000V	Electrolytic	100μF	10V		1
C211	CM2 7 3500 K00SV	Mylar	0.027μ F		±10%	1	C327	CD3 3 8160 0001V	Electrolytic	3300μ F	16V		1
C212	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1	C330	CP1 2 3101 J000V	Polypropylen	0.012μF	100V	± 5%	1
C213	CD1 0 5100 0000V	Electrolytic	1μF	10V	. 400/	1	C331	CM6 8 3500 K00SV	Mylar	0.068μ F		$\pm 10\%$	1
C214	CM2 2 2500 K00SV	Mylar	0.0022μF		±10%	1	C332	CD1 0 6100 0000V	Electrolytic	10μF	10V		1
C215	CC3 9 1500 KE00C	Ceramic	390pF	50V	±10%	1	C333	CM3 3 2500 K00SV	Mylar	0.0033μF		±10%	1
C216	CD4 7 6100 0001V	Electrolytic	47μF	10V	. 400/	1	C334	CM47 2500 K00SV	Mylar	0.0047μF		±10%	1
C217	CM2 7 3500 K00SV	Mylar	0.027μF		±10%	1	C335	CM3 3 2500 K00SV	Mylar	0.0033μ F		±10%	1
C218	CD4 7 5100 0000V	Electrolytic	4.7μF	10V	. 400/	1	C338	CP5 6 2101 J000V	Polypropylen	0.0056μ F	10 0 V	±5%	1
C219	CC1 O 2500 KE00C	Ceramic	0.001µF		±10%	1	C339	CM4 7 3500 K00SV	Mylar	0.047μF		±10%	1
C220 C221	CC2 4 1500 JD00C	Ceramic	240pF	50V	± 5%	1	C340	CM6 8 2500 K00SV	Mylar	0.0068μF		±10%	1
C222	CC4 7 1500 KE00C	Ceramic	470pF	50V	±10%	1	C341	CM6 8 2500 K00SV	Mylar	0.0068μ F		±10%	1
C223	CD4 7 4100 0000V	Electrolytic	0.47μF	10V		1	C342 C343	CM1 5 3500 K00SV	Mylar	0.015μ F		±10%	1
C223	CD2 2 5100 0000V	Electrolytic	2.2μF	10V	1.400/	1	C343	CD3 3 7100 0001V	Electrolytic	330μF	10V	1.00/	1
C225	CC2 2 1500 KE00C CI4 7 2250 KF00C	Ceramic	220pF		±10%	1	C346	CC3 3 1500 KE00C	Ceramic	330pF	50V		1
C226	CD1 O 5100 0000V	Boundary	0.0047μF		±10%	1	C347	CC2 2 3500 ZG00C	Ceramic	0.022µF		+80,-20%	1
C227	CD1 O 5100 0000V	Electrolytic	1μF	10V 10V		† 1	R101	CD1 0 6100 0000V RP1 0 2121 JH000	Electrolytic	10μF	10V	→ E0/	1
C228	CM1 5 3500 K00SV	Electrolytic	1μF 0.0155		±10%	1	R102	RP4 7 2121 JH000	Pretty Carbon	1kΩ	1/8W	±5%	1
	CC1 O 2500 KE00C	Mylar Ceramic	0.015μF 0.001μF		±10%	1	R103	RP3 3 2121 JH000	Pretty Carbon	4.7 k Ω 3.3 k Ω	1/8 W	± 5% ± 5%	1
	CD4 7 5100 0000V	Electrolytic	0.001μF 4.7μF	10V	± 10%	1	R104	RP1 5 2121 JH000	Pretty Carbon	3.3kΩ 1.5kΩ	1/8 W	± 5%	1
C234	CD4 7 6100 0001V	Electrolytic	47μF	100		i	R105	RP6 8 3121 JH000	Pretty Carbon Pretty Carbon	68kΩ	1/8 W	±5%	1
	CD1 O 7100 0001V	Electrolytic	47μ1 100μF	100		1	R106	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8 W	± 5%	1
C236	CM1 5 4500 K00SV	Mylar	0.15μF	50V	±10%	i	R107	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8 W	± 5%	1
	CD2 2 8100 0001V	Electrolytic	2200µF	10V	- 10/0	i	R108	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8	± 5%	1
	CD1 O 5100 0000V	Electrolytic	2200μ1 1μF	100		1	R109	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8	± 5%	1
C239	CD1 O 5100 0000V	Electrolytic	1μF	10V		1	R110	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8	± 5%	1
	CM2 2 3500 K00SV	Mylar	0.022μF		±10%	1	R111	RP5 6 2121 JH000	Pretty Carbon	5.6kΩ	181	± 5%	1
	CC1 8 2500 KE00C	Ceramic	0.0018µF	50V		1	R112	RP1 0 0121 JH000	Pretty Carbon	10Ω	18 VV	± 5%	1
	CC6 8 1500 KE00C	Ceramic	680pF		±10%	1	R113	RP5 6 0121 JH000	Pretty Carbon	56Ω	18	± 5%	1
C243	CC3 3 1500 KE00C	Ceramic	330pF		$\pm 10\%$	1	R114	RP6 8 0121 JH000	Pretty Carbon	68Ω	18	± 5%	1
	CC3 3 1500 KE00C	Ceramic	330pF		±10%	1	R115	RP8 2 0121 JH000	Pretty Carbon	82Ω	18	± 5%	1
	CD1 O 6100 0000V	Electrolytic	10μF	10V	_ 10/0	1	R116	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	18	± 5%	i
	CD1 O 5100 0000V	Electrolytic	1μF	10V		1	R117	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	18	± 5%	1
	CC1 5 2500 KE00C	Ceramic	0.0015μF		±10%	1	R118	RP1 0 4121 JH000	Pretty Carbon	100kΩ	1.8	± 5%	1
	CC3 3 2500 KE00C	Ceramic	0.0033µF		±10%	1	R119	RP6 8 1121 JH000	Pretty Carbon	680Ω	1.8	±5%	1
	CC3 3 2500 KE00C	Ceramic	0.0033μF		±10%	1	R120	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1.8	± 5%	1
C250	CC3 3 1500 KE00C	Ceramic	330pF	50V		1	R121	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	1.8	± 5%	1
	CM4 7 3500 K00SV	Mylar	0.047µF		±10%	1	R122	RP1 0 2121 JH000	Pretty Carbon	1kΩ	18	± 5%	i
	CC1 2 2500 KE00C	Ceramic	0.0012μF		±10%	1	R123	RP1 0 0121 JH000	Pretty Carbon	10Ω	181	± 5%	1
	CD1 O 7100 0001V	Electrolytic	100μF	10V	. 370	1	R124	RP3 3 0121 JH000	Pretty Carbon	33Ω	18	± 5%	1
	CD4 7 7100 0001V	Electrolytic	470μF	10V		1	R125	RP3 9 0121 JH000	Pretty Carbon	39Ω	18	± 5%	1
	CD4 7 7100 0001V	Electrolytic	470μF	10V		1	R126	RP4 7 0121 JH000	Pretty Carbon	47Ω	18	±5%	i
C304	CD4 7 7100 0001V	Electrolytic	470μF	10V		1	R127	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	18	±5%	1
	CD4 7 4100 0000V	Electrolytic	0.47μF	10V		1	R128	RP2 7 2121 JH000	Pretty Carbon	$2.7k\Omega$	18	± 5%	1
	CC4 7 1500 KE00C	Ceramic	470pF		±10%	1	R129	RP1 0 4121 JH000	Pretty Carbon	100kΩ	18	± 5%	1
	CD1 O 5100 0000V	Electrolytic	1μF	10V	0,0	1	R130	RP6 8 1121 JH000	Pretty Carbon	680Ω	18	± 5%	i
	CD1 O 5100 0000V	Electrolytic	1μF	10V		1	R131	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	18	± 5%	1
	CC4 7 1500 KE00C	Ceramic	470pF		±10%	1	R132	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	18	± 5%	1

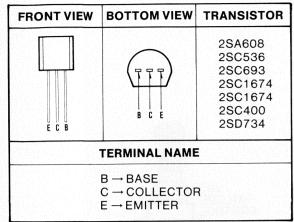
Ref. No.	Parts No.		Descriptio	n		Q'ty	Ref. No.	Parts No.		Descriptio	n		Q'ty
R133	RP6 8 3121 JH000	Pretty Carbon	68kΩ	1/8W	±5%	1	R231	RP4 7 2121 JH000	Pretty Carbon	4.7k Ω	1/8W	± 5%	1
R134	RP2 2 2121 JH000	Pretty Carbon	$2.2k\Omega$	1/8W	$\pm 5\%$	1	R232	RP2 7 2121 JH000	Pretty Carbon	2.7kΩ	1/8W	± 5%	1
R135	RP1 2 3121 JH000	Pretty Carbon	12kΩ	1/8W	$\pm 5\%$	1	R233	RP6 8 3121 JH000	Pretty Carbon	68kΩ	1/8W	± 5%	1
R136	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1	R234	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R137	RP4 7 3121 JH000	Pretty Carbon	47kΩ	1/8W	± 5%	1	R235 R236	RP1 2 3121 JH000 RP4 7 2121 JH000	Pretty Carbon	12kΩ 4.7kΩ	1/8W 1/8W	± 5% ± 5%	1
R138	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W 1/8W	± 5% ± 5%	1 1	R237	RP4 7 2121 JH000	Pretty Carbon Pretty Carbon	4.7kΩ 47kΩ	1/8W	± 5%	1
R139 R140	RP1 5 4121 JH000 RP3 3 1121 JH000	Pretty Carbon Pretty Carbon	150kΩ 330Ω	1/8W	± 5%	1	R238	RP1 0 1121 JH000	Pretty Carbon	100Ω	1/8W	± 5%	1
R140	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8W	± 5%	1	R239	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	± 5%	1
R142	RP1 5 4121 JH000	Pretty Carbon	150kΩ	1/8W	± 5%	1	R240	RP3 3 1121 JH000	Pretty Carbon	330Ω	1/8W	± 5%	1
R143	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1	R241	RP3 9 2121 JH000	Pretty Carbon	3.9 k Ω	1/8W	$\pm 5\%$	1
R144	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	$\pm 5\%$	1	R242	RP1 5 4121 JH000	Pretty Carbon	150k Ω	1/8W	$\pm 5\%$	1
R145	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	$\pm 5\%$	1	R243	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	$\pm 5\%$	1
R146	RP2 2 2121 JH000	Pretty Carbon	$2.2 \mathrm{k}\Omega$	1/8W	$\pm 5\%$	1	R244	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	$\pm 5\%$	1
R147	RP1 5 2121 JH000	Pretty Carbon	1.5k Ω	1/8W	$\pm 5\%$	1	R245	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	± 5%	1
R148	RP3 9 4121 JH000	Pretty Carbon	390kΩ	1/8W	± 5%	1	R246	RP2 2 2121 JH000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R149	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	± 5%	1	R247	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8 W 1/8 W	± 5% ± 5%	1
R150	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	1/8W	± 5%	1	R248 R249	RP3 9 4121 JH000 RP4 7 1121 JH000	Pretty Carbon Pretty Carbon	390kΩ 470Ω	1/8W	± 5%	1
R151 R153	RP2 2 3121 JH000 RP6 8 0121 JH000	Pretty Carbon Pretty Carbon	22kΩ 68Ω	1/8W 1/8W	± 5% ± 5%	1 1	R250	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	1/8W	$\pm 5\%$	1
R155	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1	R251	RP2 2 3121 JH000	Pretty Carbon	22kΩ	1/8W	± 5%	1
R156	RD1 8 1251 JS000	Carbon	180Ω	1/4W	± 5%	i	R253	RP6 8 0121 JH000	Pretty Carbon	68Ω	1/8W	± 5%	1
R157	RP2 7 3121 JH000	Pretty Carbon	27kΩ	1/8W	± 5%	1	R255	RP4 7 2121 JH000	Pretty Carbon	4.7 k Ω	1/8 W	$\pm 5\%$	1
R158	RP3 3 3121 JH000	Pretty Carbon	33kΩ	1/8W	± 5%	1	R256	RD1 8 1251 JS000	Carbon	180Ω	1/4 W	$\pm 5\%$	1
R159	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8W	$\pm 5\%$	1	R257	RP2 7 3121 JH000	Pretty Carbon	27k Ω	1/8 W	$\pm 5\%$	1
R160	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8W	$\pm 5\%$	1	R258	RP3 3 3121 JH000	Pretty Carbon	33k Ω	1/8 W	$\pm 5\%$	1
R161	RP3 9 4121 JH000	Pretty Carbon	390kΩ	1/8W	$\pm 5\%$	1	R259	RP1 0 2121 JH000	Pretty Carbon	1kΩ	1/8 W	±5%	1
R162	RP1 5 2121 JH000	Pretty Carbon	1.5k Ω	1/8W	$\pm 5\%$	1	R260	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8 W	± 5%	1
R163	RP3 9 1121 JH000	Pretty Carbon	390Ω	1/8W	± 5%	1	R261	RP3 9 4121 JH000	Pretty Carbon	390kΩ	1/8W	± 5%	1
R164	RP1 8 2121 JH000	Pretty Carbon	1.8kΩ	1/8W	± 5%	1	R262	RP1 5 2121 JH000	Pretty Carbon	1.5kΩ	1/8W	± 5%	1
R165	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	± 5%	1	R263 R264	RP3 9 1121 JH000 RP1 8 2121 JH000	Pretty Carbon Pretty Carbon	390Ω 1.8 k Ω	1/8 W 1/8 W	± 5% ± 5%	1
R166 R167	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ 680Ω	1/8W 1/8W	±5% ±5%	1 1	R265	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8 W	$\pm 5\%$	1
R168	RP6 8 1121 JH000 RP4 7 3121 JH000	Pretty Carbon Pretty Carbon	47kΩ	1/8W	± 5%	1	R266	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8 W	± 5%	i
R201	RP1 O 2121 JH000	Pretty Carbon	1kΩ	1/8W	± 5%	1	R267	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8 W	± 5%	1
R202	RP4 7 2121 JH000	Pretty Carbon	4.7kΩ	1/8W	± 5%	1	R268	RP4 7 3121 JH000	Pretty Carbon	$47k\Omega$	1/8W	$\pm 5\%$	1
R203	RP3 3 2121 JH000	Pretty Carbon	3.3 k Ω	1/8W	±5%	1	R303	RP2 2 2121 JH000	Pretty Carbon	2.2k Ω	1/8W	$\pm 5\%$	1
R204	RP1 5 2121 JH000	Pretty Carbon	1.5k Ω	1/8W	$\pm 5\%$	1	R304	RP3 9 1121 JH000	Pretty Carbon	390Ω	1/8W	$\pm 5\%$	1
R205	RP6 8 3121 JH000	Pretty Carbon	68 k Ω	1/8W	$\pm 5\%$	1	R305	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8 W	$\pm 5\%$	1
R206	RP4 7 2121 JH000	Pretty Carbon	4.7 k Ω	1/8W	$\pm 5\%$	1	R306	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8 W	±5%	1
R207	RP1 5 2121 JH000	Pretty Carbon	1.5k Ω	1/8W	$\pm 5\%$	1	R307	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8 W	± 5%	1
R208	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1	R308	RP6 8 2121 JH000	Pretty Carbon	6.8kΩ	1/8W	± 5%	1
R209	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1	R309	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8W	± 5%	1
R210	RP3 9 2121 JH000	Pretty Carbon	3.9kΩ	1/8W	±5%		R310 R311	RP1 0 5121 JH000 RP1 0 3121 JH000	Pretty Carbon	1MΩ 10kΩ	1/8 W 1/8 W	± 5% ± 5%	1 1
R211 R212	RP5 6 2121 JH000 RP1 O 0121 JH000	Pretty Carbon	5.6kΩ	1/8W 1/8W	±5% ±5%	1 1	R312	RP3 9 1121 JH000	Pretty Carbon Pretty Carbon	390Ω	1/8	± 5%	i
R213	RP5 6 0121 JH000	Pretty Carbon Pretty Carbon	10Ω 56Ω	1/8W	± 5%		R313	RP3 3 2121 JH000	Pretty Carbon	3.3kΩ	1/8	± 5%	1
R214	RP6 8 0121 JH000	Pretty Carbon		1/8W	± 5%	1	R314	RP3 9 4121 JH000	Pretty Carbon	390kΩ	1/8	±5%	1
R215	RP8 2 0121 JH000	Pretty Carbon		1/8W	± 5%		R315	RP2 2 1121 JH000	Pretty Carbon	220Ω	1/iW	$\pm 5\%$	1
R216	RP2 7 2121 JH000	Pretty Carbon		1/8W	± 5%		R316	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/8/	$\pm 5\%$	1
R217	RP1 8 2121 JH000	Pretty Carbon		1/8W	$\pm 5\%$		R317	RP1 5 3121 JH000	Pretty Carbon	15k Ω	1/ W	$\pm 5\%$	1
R218	RP1 O 4121 JH000	Pretty Carbon		1/8W	$\pm 5\%$	1	R318	RP1 5 3121 JH000	Pretty Carbon	15kΩ	1/₩	$\pm 5\%$	1
R219	RP6 8 1121 JH000	Pretty Carbon	680Ω	1/8W	$\pm 5\%$	1	R319	RP8 2 0121 JH000	Pretty Carbon	82Ω	1/\	± 5%	1
R220	RP4 7 2121 JH000	Pretty Carbon		1/8W	$\pm 5\%$		R320	RP3 9 1121 JH000	Pretty Carbon	390Ω	1/₩	±5%	1
R221	RP2 7 2121 JH000	Pretty Carbon		1/8W	±5%		R321	RP3 9 1121 JH000	Pretty Carbon	390Ω	1/ W	±5%	1
R222	RP1 O 2121 JH000	Pretty Carbon		1/8W	±5%		R322	RD5 6 0251 JS000	Carbon	56Ω	1/W	±5%	1
R223	RP1 O 0121 JH000	Pretty Carbon		1/8W	± 5%		R323	RD3 9 0251 JS000	Carbon Pretty Carbon	39Ω 820Ω	1/4 V	± 5% ± 5%	1
R224	RP3 3 0121 JH000	Pretty Carbon		1/8W	± 5%		R324	RP8 2 1121 JH000 RP8 2 3121 JH000	Pretty Carbon Pretty Carbon	820Ω 82kΩ	1//W	± 5%	1
R225 R226	RP3 9 0121 JH000 RP4 7 0121 JH000	Pretty Carbon		1/8W 1/8W	± 5% ± 5%		R325 R326	RP8 2 3121 JH000	Pretty Carbon	82kΩ	1/WV	± 5%	1
R227	RP4 7 2121 JH000	Pretty Carbon Pretty Carbon		1/8W	± 5%		R327	RP8 2 2121 JH000	Pretty Carbon	8.2kΩ	1/wv	± 5%	i
R228	RP2 7 2121 JH000	Pretty Carbon		1/8W	± 5%		R328	RD3 3 5251 JN000	Carbon	3.3MΩ	1/4/	±5%	i
R229	RP1 O 4121 JH000	Pretty Carbon		1/8W	± 5%		R330	RP5 6 A121 JH000	Pretty Carbon	5.6Ω	1/W	±5%	1
R230	RP6 8 1121 JH000	Pretty Carbon		1/8W	±5%		R332	RP4 7 1121 JH000	Pretty Carbon	470Ω	1/W	$\pm 5\%$	1
		-											

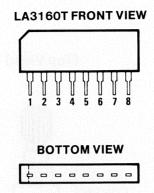
Ref. No.	Parts No.	Description	on .	***	Q'ty	Ref. No.	Parts No.	Descript	ion	Q'ty
R333	RP1 8 1121 JH000	Pretty Carbon 180Ω	1/8W	±5%	1	Q1	4 2039 70380	Transistor, 2SC1674		1
R334	RP5 6 A121 JH000	Pretty Carbon 5.6Ω	1/8W	$\pm 5\%$	1	Q2	4 2039 70460	Transistor, 2SC1675		1
R335	RD1 2 1251 JS000	Carbon 120 Ω	1/4W	$\pm 5\%$	1	Q3	4 2039 70460	Transistor, 2SC1675		1
R336	RP3 3 A121 JH000	Pretty Carbon 3.3Ω	1/8W	$\pm 5\%$	1	Q4	4 2039 70100	Transistor, 2SC945		1
R337	RP1 2 3121 JH000	Pretty Carbon 12kΩ	1/8W	± 5%	1	Q5	4 2039 70100	Transistor, 2SC945		1
R338	RP1 2 3121 JH000	Pretty Carbon 12kΩ	1/8W	±5%	1	Q6	4 2039 70460	Transistor, 2SC1675		1
R342 R343	RP1 0 2121 JH000	Pretty Carbon 1kΩ	1/8W	±5%	1	IC1	4 2069 70232	IC, μPC1018E		1
R344	RP1 0 4121 JH000 RP1 0 2121 JH000	Pretty Carbon $100k\Omega$ Pretty Carbon $1k\Omega$	1/8W 1/8W	± 5% ± 5%	1	IC2 C1	4 2069 70510	IC, μPC1197C	- 4014	1
R345	RP1 8 3121 JH000	Pretty Carbon 18kΩ	1/6W	±5%	1	C2	CI2 2 3160 XG00R CI1 0 3250 MF00R	Boundary 0.022 μ l		1
R346	RP1 8 3121 JH000	Pretty Carbon 18kΩ	1/8W	± 5%	1	C3	CC2 0 0500 JD00C	Boundary 0.01μ l Ceramic $20pl$		1
R347	RP6 8 A121 JH000	Pretty Carbon 6.8Ω	1/8W	± 5%	1	C4	CC3 0 A500 CCH0C	Ceramic 20pi		1 1
R348	RP6 8 A121 JH000	Pretty Carbon 6.8Ω	1/8W	± 5%	1	C5	CC2 0 A500 CCH0C	Ceramic 2pl		1
R349	RP3 3 A121 JH000	Pretty Carbon 3.3Ω	1/8W	± 5%	1	C7	CI2 2 3160 XG00R	Boundary 0.022 μ I		1
R350	RP1 0 4121 JH000	Pretty Carbon 100k Ω	1/8W	$\pm 5\%$	1	C8	CI2 2 3160 XG00R	Boundary 0.022µI		1
R351	RP1 0 4121 JH000	Pretty Carbon $100k\Omega$	1/8W	$\pm 5\%$	1	C9	CC1 8 0500 JCH0C	Ceramic 18pl		1
						C10	CC1 5 0500 JCH0C	Ceramic 15pl	$50V \pm 5\%$	1
						C11	CC1 5 0500 JCH0C	Ceramic 15pl	$50V \pm 5\%$	1
DODO	RADIO TUNER					C12	CC1 0 0500 JCH0C	Ceramic 10pl		1
PCB2	4 1259 71670	Radio Tuner P.C.B. Assy			1_	C13	CI1 0 3250 MF00R	Boundary 0.01μ F		1
	4 2369 70740	RT Pin			7	C14	CI2 2 3160 XG00R	Boundary 0.022μ F		1
	101 3 1302 60411 141 2 3229 34800	Screw, Pan Hd. Shield Plate, Tuner	+M2.6	0X4	2	C15 C16	CC6 0 A500 CCH0C	Ceramic 6pf		1
	141 2 3229 34800	Shield Plate, Tuner			1 1	C18	CI2 2 3160 XG00R	Boundary 0.022µF		1
	141 2 4729 04700	Staple, 10mm			8	C19	CI2 2 3160 XG00R CI2 2 3160 XG00R	Boundary 0.022μ F Boundary 0.022μ F		1
	141 2 4729 05000	Staple, 5mm			11	C20	CI2 2 3160 XG00R	Boundary 0.022μ F Boundary 0.022μ F		1 1
CN1	4 2369 73380	Connector 5P			1	C21	CC2 2 1500 KE00C	Ceramic 220pF		1
S1	4 2319 75060	Rotary Switch (Band Select)			1	C22	CC2 2 1500 KE00C	Ceramic 220pF		; 1
P1	4 2229 73620	Potentiometer (B-10k Ω)			1	C23	CD4 7 5100 0000V	Electrolytic 4.7 μ F		i
P2	4 2229 73610	Potentiometer (B-1k Ω)			1	C24	CB4 7 4100 0000V	None-potar 0.47μ F		1
PVC1	4 2249 70451	Variable Condenser			1	C25	CI2 2 3160 XG00R	Boundary 0.022µF		1
BF1	4 2539 70211	Bead Ferrite			1	C26	CD4 7 5100 0000V	Electrolytic 4.7µF		1
L1	4 2599 70334	RF Coil			1	C27	CC1 5 0500 JD00C	Ceramic 15pF	$50V \pm 5\%$	1
L3	4 2589 71960	FM OSC Trans			1	C28	CC7 0 A500 CD00C	Ceramic 7pF		1
L4 L5	4 2579 71130	Bar Antenna			1	C29	CC2 2 0500 JD00C	Ceramic 22pF		1
T1	4 2539 70870 4 2569 70990	Band Pass Filter IFT, 10.7MHz			1	C30	CC2 0 0500 JD00C	Ceramic 20pF		1
T2	4 2569 70321	IFT, 10.7Min2			1	C31 C32	CS3 1 2500 J010F CS3 6 1500 J010F	Polystyroul 0.0031µF		1
T3	4 2569 70331	IFT			1	C33	CS2 0 1500 J010F	Polystyroul 360pF Polystyroul 200pF		1
T4	4 2579 70722	Antenna Coil			1	C34	CC1 0 0500 JD00C	Polystyroul 200pF Ceramic 10pF		1
T5	4 2589 71400	OSC Trans			1	C35	CC1 2 0500 JD00C	Ceramic 12pF		1
T6	4 2589 71410	OSC Trans			1	C36	CC1 0 1500 JD00C	Ceramic 100pF	50 ∨ ±5%	1
T7	4 2589 71420	OSC Trans			1	C37	CI2 2 3160 XG00R	Boundary 0.022μ F		1
T8	4 2569 70950	IFT			1	C38	CI2 2 3160 XG00R	Boundary 0.022 µF		1
T9	4 2569 70960	IFT			1	C39	CI2 2 3160 XG00R	Boundary 0.022 µF	16 V +40,-20%	1
T10	4 2569 71120	IFT, AM			1	C40	CI1 0 3250 MF00R	Boundary 0.01μ F	25 ∨ ±20%	1
T11 TC1	4 2569 71280	IFT			1	C41	CD1 0 5100 0002V	Electrolytic 1μF		1
TC2	4 2249 70290	Trimmer Condenser			1	C42	CI2 2 3160 XG00R	Boundary 0.022μF	16 V +40,-20%	1
TC3	4 2249 70350 4 2249 70290	Trimmer Trimmer Condenser			1	C43	CD2 2 6100 0000V	Electrolytic 22µF	10	1
TC4	4 2249 70290	Trimmer Condenser			1	C44 C45	CI2 2 3160 XG00R	Boundary 0.022μ F	16V +40,-20%	1
TC5	4 2249 70350	Trimmer			1	C46	CI2 2 3160 XG00R CD2 2 6100 0000V	Boundary 0.022μ F Electrolytic 22μ F	16 +40,-20%	1
CF1	4 2539 70880	Ceramic Filter			1	C47	CI2 2 3160 XG00R	Electrolytic 22μ F Boundary 0.022μ F	10 ∨ 16 ∨ +40,-20%	1 1
CF2	4 2539 70880	Ceramic Filter			1 1	C48	CD1 0 4500 0002V	Electrolytic 0.022μ F	.0 ∨ +40,-20%	1
D1	202 5 2810 44210	Diode, DS 442			1	C49	CD1 0 7100 0000V	Electrolytic 100μ F	10~	i
D2	202 5 2810 44210	Diode, DS 442			1	C50	CM47 3500 K00SV	Mylar $0.047\mu\text{F}$	%0 √ ±10%	1
D3	4 2029 70790	Diode, ITT410			1	C51	CS4 7 1500 J010F	Polystyroul 470pF	10 √ ±5%	1
D4	202 5 9110 18820	Diode, 1S 188			1	C52	CA3 3 4100 X000V	Aluminum 0.33 μ F	0 +40,-20%	1
D5	202 5 9110 18820	Diode, 1S 188			1	C53	CD1 0 5100 0000V	Electrolytic 1μ F	10 🗸	1
D6 D7	202 5 9110 18820	Diode, 1S 188			1	C54	CD2 2 5100 0000V	Electrolytic 2.2μ F	10	1
D/ D8	4 2029 70430	Diode, WZ-061			1.	C55	Cl1 5 3250 MF00R	Boundary 0.015μ F	5 ✓ ±20%	1
D9	202 5 9110 18820	Diode, 1S 188			1	C56	CI1 5 3250 MF00R	Boundary $0.015\mu\text{F}$	5 ✓ ± 20%	1
D10	202 5 2810 44210 202 5 2810 44210	Diode, DS 442			1	C57	CD2 2 4500 0002V	Electrolytic 0.22μ F	0	1
	0 2010 44210	Diode, DS 442			1	C58	CD2 2 4500 0002V	Electrolytic 0.22μ F	10	1

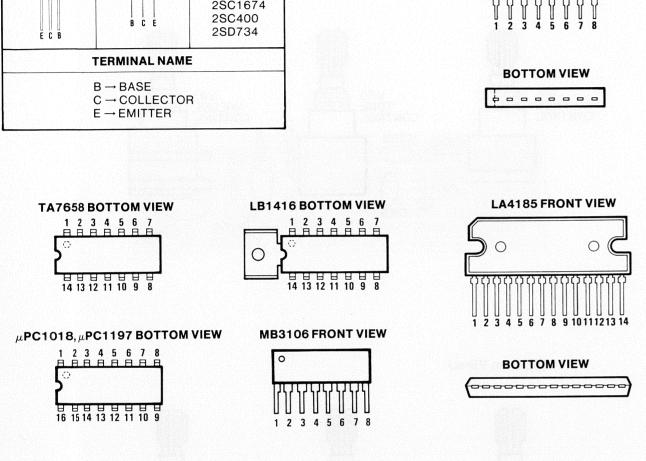
Ref. No.	Parts No.		Description	1		Q'ty	Ref. No.	Parts No.	D:	escriptio	n		Q'ty
C59	CM3 3 2500 K00SV	Mylar	0.0033µF	50V	±10%	1	R47	RD5 6 A251 JM000	Carbon	5.6Ω	1/4W	± 5%	1
C60	CM3 3 2500 K00SV	Mylar	0.0033µF		±10%	1	R48	RD1 0 4251 JM000	Carbon	100k Ω	1/4W	$\pm 5\%$	1
C61	CM3 3 2500 K00SV	Mylar	0.0033μ F	50V	±10%	1	R49	RD1 0 1251 JM000	Carbon	100Ω	1/4W	$\pm 5\%$	1
C62	CM33 2500 K00SV	Mylar	0.0033μ F	50V	±10%	1	R50	RD1 0 3251 JM000	Carbon	10k Ω	1/4W	± 5%	1
C63	CD4 7 7100 0000V	Electrolytic	470μF	10V		1	R51	RP2 7 2121 JT000	Pretty Carbon	2.7k Ω	1/8W	$\pm 5\%$	1
C64	CI2 2 3160 XG00R	Boundary	0.022μ F	16V ⊣	-40,-20%	1	R52	RD3 3 2251 JM000	Carbon	3.3 k Ω	1/4W	± 5%	1
C65	CD1 0 7100 0000V	Electrolytic	100μF	10V		1	R53	RD2 2 4251 JM000	Carbon	220kΩ	1/4W	± 5%	1
C66	CI2 2 3160 XG00R	Boundary	0.022μF		⊦40,-20%	1	R54	RD2 2 1251 JM000	Carbon	220Ω	1/4W	± 5%	1
C67	CC1 0 1500 JD00C	Ceramic	100pF	50V	±5%	1	R55	RD1 0 3251 JM000	Carbon	10kΩ	1/4W	± 5% ± 5%	1 1
C68	CI2 2 3160 XG00R	Boundary	0.022μF		+40,-20% 20%	1	R56 R57	RD1 0 3251 JM000 RP1 0 1121 JT000	Carbon Pretty Carbon	10kΩ 100Ω	1/4W 1/8W	± 5%	i
C69 C70	CI1 0 3250 MF00R	Boundary	0.01μF	25V 10V	± 20%	1 1	R58	RP2 2 2121 JT000	Pretty Carbon	$2.2k\Omega$	1/8W	$\pm 5\%$	1
C71	CD1 0 6100 0000V CC1 0 1500 KD00C	Electrolytic Ceramic	10μF 100pF		±10%	1	R59	RP4 7 4121 JT000	Pretty Carbon	470k Ω	1/8W	$\pm 5\%$	1.
C72	CI2 2 3160 XG00R	Boundary	0.022μF		+40,-20%	1	R60	RP2 2 2121 JT000	Pretty Carbon	2.2 k Ω	1/8W	$\pm 5\%$	1
C73	CC4 7 1500 KE00C	Ceramic	470pF		±10%	i i	R61	RP1 0 2121 JT000	Pretty Carbon	1kΩ	1/8W	± 5%	1
C74	CC5 0 A500 CD00C	Ceramic	5pF		± 0.2pF	1	R62	RP4 7 2121 JT000	Pretty Carbon	4.7 k Ω	1/8W	$\pm 5\%$	1
C75	CC2 0 0500 JD00C	Ceramic	20pF	50V	± 5%	1							
C76	CI2 2 3160 XG00R	Boundary	0.022µF	16V -	+40,-20%	1		DOWER CURRI	VDCD ACCV				
C77	CI2 2 3160 XG00R	Boundary	0.022μF	16V -	+40,-20%	1	PCB3	POWER SUPPL) Acov			1
C78	CC1 0 2500 KE00C	Ceramic	0.001μ F	50V	±10%	1	PUBS	4 1919 71462 4 2269 35880	Power Supply P.C.E PCB, Power	o. Assy			1
R1	RD1 0 4251 JM000	Carbon	100k Ω	1/4W	$\pm 5\%$	1		4 2359 70990	RT Pin Socket				2
R2	RD1 0 4251 JM000	Carbon	100k Ω	1/4W	$\pm 5\%$	1		4 2359 70910	Fuse Holder				2
R3	RD3 3 2251 JM000	Carbon	3.3 k Ω	1/4W	$\pm 5\%$	1		141 2 4729 04700	Staple, 10mm				1
R4	RD4 7 1251 JM000	Carbon	470Ω	1/4W	± 5%	1		141 2 4729 05000	Staple, 5mm				1
R5	RD1 0 1251 JM000	Carbon	100Ω	1/4W	±5%	1		141 6 4729 36800	Fuse Label				1
R6	RD1 0 4251 JM000	Carbon	100kΩ	1/4W	±5%	1	F1	4 2349 70260	Fuse (2A)				1
R7	RD1 0 4251 JM000	Carbon	100kΩ	1/4W	± 5%	1	J9	4 2359 73682	AC/DC Power Jack				1
R8 R9	RD6 8 2251 JM000 RD4 7 0251 JM000	Carbon	6.8 k Ω	1/4W 1/4W	± 5% ± 5%	1 1	C345	CC2 2 3500 ZG00C	Ceramic	0.022μ F	:0V	+80,-20%	1
R10	RD1 0 4251 JM000	Carbon Carbon	47Ω 100kΩ	1/4W	± 5%	1	C346	CC2 2 3500 ZG00C	Ceramic	0.022μ F	:0V	+80,-20%	1
R11	RD2 2 1251 JM000	Carbon	220Ω	1/4W	± 5%	1	C353	CC2 2 3500 ZG00C	Ceramic	0.022μ F		+80,-20%	
R12	RD8 2 2251 JM000	Carbon	8.2kΩ	1/4W	± 5%	1	C354	CC2 2 3500 ZG00C	Ceramic	0.022μ F	:0V	+80,-20%	
R13	RD2 2 1251 JM000	Carbon	220Ω	1/4W	±5%	1	D303	202 5 2320 13210	Diode, DS 132				1
R14	RD3 3 4251 JM000	Carbon	330k Ω	1/4W	$\pm 5\%$	1	D307	202 5 2320 13110	Diode, DS 131				1
R16	RD4 7 0251 JM000	Carbon	47Ω	1/4W	$\pm 5\%$	1	İ						
R17	RD4 7 0251 JM000	Carbon	47Ω	1/4W	$\pm 5\%$	1	l	VOLUME CONT	TROL P.C.B. AS	SV.			
R19	RD1 0 2251 JM000	Carbon	1kΩ	1/4W	$\pm 5\%$	1	PCB4	4 1329 77360	Volume Control P.C				1
R20	RD1 0 2251 JM000	Carbon	1kΩ	1/4W	± 5%	1	'05'	4 2269 35860	PCB Volume				1
R21	RD4 7 2251 JM000	Carbon	4.7kΩ	1/4W	± 5%	1		141 2 4729 05000	Staple 5				1
R22 R23	RD4 7 2251 JM000	Carbon	4.7kΩ	1/4W	± 5%	1	Į	141 2 4729 04700	Staple 10				1
R24	RD5 6 3251 JM000 RD3 3 4251 JM000	Carbon Carbon	56kΩ 330kΩ	1/4W 1/4W	± 5% ± 5%	1	CN2	4 2359 75138	Connector 6P Assy				1
R25	RP4 7 0121 JT000	Pretty Carbon		1/4W	± 5%	1	VR1	4 2229 73443	Volume Control (Ba	ılance, W-20	OkΩ)		1
R26	RD5 6 A251 JM000	Carbon	5.6Ω	1/4W	± 5%	1	VR2	4 2229 71840	Volume Control (To	-			1
R27	RD3 3 0251 JM000	Carbon	33Ω	1/4W	± 5%	1	VR3	4 2229 71845	Volume Control (Vo			. 400/	1
R28	RD4 7 3251 JM000	Carbon	47kΩ	1/4W	± 5%	1	C129	CM3 9 3500 K00SV	Mylar	0.039µF	VO	±10%	1
R29	RD4 7 0251 JM000	Carbon	47Ω	1/4W	$\pm 5\%$	1	C130	CC3 3 2500 KE00C	Ceramic	0.0033μF	VC:	±10%	1
R30	RD4 7 0251 JM000	Carbon	47Ω	1/4W	$\pm 5\%$	1	C131	CM8 2 3500 K00SV	Mylar	0.082μF	VO:	±10% ±10%	1 1
R31	RD4 7 3251 JM000	Carbon	47 k Ω	1/4W	$\pm 5\%$	1	C229 C230	CM3 9 3500 K00SV CC3 3 2500 KE00C	Mylar Ceramic	0.039μ F 0.0033μ F	:DV	± 10%	1
R32	RD1 0 3251 JM000	Carbon	10k Ω	1/4W	$\pm 5\%$	1	C231	CM8 2 3500 K00SV	Mylar	0.0033μ F	ĐV	± 10%	1
R33	RD2 2 2251 JM000	Carbon	2.2 k Ω	1/4W	$\pm 5\%$	1	R152	RD1 0 3251 JN000	Carbon	10kΩ	1#W	± 5%	i
R34	RD4 7 2251 JM000	Carbon	4.7 k Ω	1/4W	$\pm 5\%$	1	R154	RD2 7 2251 JN000	Carbon	2.7kΩ	1∄W	$\pm 5\%$	ĺ
R35	RD3 3 2251 JM000	Carbon	3.3kΩ	1/4W	± 5%	1	R252	RD1 0 3251 JN000	Carbon	10k Ω	1. ¥W	$\pm 5\%$	1
R36	RD1 8 3251 JM000		18kΩ	1/4W	± 5%	1	R254	RD2 7 2251 JN000	Carbon	2.7 k Ω	1#W	$\pm 5\%$	1
R37 R38	RD1 0 2251 JM000		1kΩ	1/4W	± 5%								
R39	RD3 3 2251 JM000		3.3kΩ	1/4W	± 5%								
R40	RD3 3 2251 JM000 RD1 8 1251 JM000		3.3kΩ 180Ω	1/4W 1/4W	± 5% ± 5%			LED P.C.B. ASS					,
R41	RD4 7 2251 JM000		180Ω 4.7kΩ	1/4W	± 5%		PCB5	4 1329 77460	LED P.C.B. Assy				1
R42	RD4 7 2251 JM000		4.7kΩ	1/4W	± 5%			4 2269 35950	PCB, LED				1
R43	RD4 7 2251 JM000		$4.7k\Omega$	1/4W	± 5%		Dooc	4 2359 70990	RT Pin Socket	ioro Tomo C	nd)		2 1
R44	RD4 7 2251 JM000		4.7kΩ	1/4W	± 5%		D302	4 2029 71690	LED, SLP-141B (M	icio, rape E	nu/		'
R45	RD5 6 A251 JM000	Carbon	5.6Ω	1/4W	± 5%								
R46	RD4 7 1251 JM000		470Ω	1/4W	±5%		1						

Ref. No.	Parts No.	D	escriptio	n		Q'ty	Ref. No.	Parts No.		Description	on		Q'ty
	INDICATOR P.O	C.B. ASSY	****	******			C501	CD1 0 7160 0001V	Electrolytic	100µF	16V		1
PCB6	4 5119 70740	Indicator P.C.B. Ass	v			1	C502	CD2 2 5100 0000V	Electrolytic	2.2µF			1
	4 2269 35890	PCB, LED	•			1	C503	CD1 0 6160 0000V	Electrolytic	10μF			1
	141 2 2719 16700	LED Holder				1	C504	CD3 3 7100 0001V	Electrolytic	330μF			1
	141 2 1519 31100	Reflector				1	C505	CD2 2 5500 0000V	Electrolytic	2.2μF			1
	141 2 4729 04700	Staple, 10mm				1	C506	CD2 2 5500 0000V	Electrolytic	2.2μF			1
CN3	4 2359 75202	Connector 10P Assy	,			1	C507	CD2 2 5500 0000V	Electrolytic	2.2μF			1
D304	4 2029 71820	LED, SLR-34UR (Op	eration/Ba	tt)		1	C508	CD2 2 5500 0000V	Electrolytic	2.2μF			1
D305	4 2029 71840	LED, SLR-54UR (Co	mpact, Ope	eration)		1	C509	CD4 7 4100 0000V	Electrolytic	0.47µF			1
D309	205 5 9040 44210	Diode, DS 442	• • •			1	C510	CD4 7 4100 0000V	Electrolytic	0.47μF			1
D310	4 2029 71311	LED, LN5202P (LED	Meter)			1	C511	CD1 0 6160 0000V	Electrolytic	10μF			1
D311	4 2029 71830	LED, SLR-54GG (M		ion)		1	C512	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1
D312	4 2029 71820	LED, SLR-34UR (Re			pact)	1	R501	RD3 9 A251 JS000	Carbon	3.9Ω	1/4W	± 5%	1
D313	4 2029 71820	LED, SLR-34UR (Re		•		1	R502	RD9 1 A251 JS000	Carbon	9.1Ω	1/4W		1
D314	4 2029 71820	LED, SLR-34UR (FM		•	•	1	R503	RP9 1 1121 JT000	Pretty Carbon	910Ω	1/8W		1
IC306	206 5 2341 41610	IC, LB1416	,			1	R504	RP3 3 1121 JT000	Pretty Carbon	330Ω	1/8W		1
C349	CD1 0 7160 0001V	Electrolytic	100µF	16V		1	R506	RP3 9 2121 JT000	Pretty Carbon	3.9kΩ	1/8W		1
C350	CD4 7 6160 0001V	Electrolytic	47μF	16V		1	R507	RP1 2 2121 JT000	Pretty Carbon	1.2kΩ	1/8W		1
C351	CD4 7 5100 0000V	Electrolytic	4.7μF	10V		1	R508	RP1 0 2121 JT000	Pretty Carbon	1kΩ	1/8W		1
C352	CD1 0 5100 0000V	Electrolytic	1μF	10V		1	R509	RD1 5 2251 JS000	Carbon	1.5k Ω	1/4W		1
R169	RP1 0 3121 JT000	Pretty Carbon	10kΩ	1/8W	± 5%	1	R510	RP3 3 2121 JT000	Pretty Carbon	3.3 k Ω	1/8W		1
R269	RP1 0 3121 JT000	Pretty Carbon	$10k\Omega$	1/8W	± 5%	1	R511	RP5 6 2121 JT000	Pretty Carbon	5.6kΩ	1/8W		1
R339	RD1 0 2251 JS000	Carbon	1kΩ	1/4W	$\pm 5\%$	1	R512	RP1 0 3121 JT000	Pretty Carbon	10k Ω	1/8W		1
R340	RD3 3 1251 JS000	Carbon	330Ω	1/4W	$\pm 5\%$	1	R513	RP1 0 3121 JT000	Pretty Carbon	10kΩ	1/8W		1
R341	RD6 8 1251 JS000	Carbon	0000	1/4W	±5%	1	R514	RP1 0 3121 JT000	Pretty Carbon	10kΩ	1/8W		1
R352	RP1 0 3121 JT000	Pretty Carbon	10k Ω	1/8W	$\pm 5\%$	1	R515	RP1 0 3121 JT000	Pretty Carbon	10kΩ	1/8W		1
R353	RP9 1 3121 JT000	Pretty Carbon	$91k\Omega$	1/8W	$\pm 5\%$	1	R516	RP4 7 3121 JT000	Pretty Carbon	$47k\Omega$	1/8W	± 5%	1
R354	RP1 5 3121 JT000	Pretty Carbon	15k Ω	1/8W	$\pm 5\%$	1.	R517	RP8 2 3121 JT000	Pretty Carbon	82kΩ	1/8W	± 5%	1
R355	RD5 6 1251 JS000	Carbon	560Ω	1/4W	$\pm 5\%$	1	R518	RP1 0 4121 JT000	Pretty Carbon	100 k Ω	1/8W	± 5%	1
R356	RD5 6 1251 JS000	Carbon	560Ω	1/4W	$\pm 5\%$	1	R519	RP2 2 2121 JT000	Pretty Carbon	2.2 k Ω	1/8W	$\pm 5\%$	1
R357	RD5 6 1251 JS000	Carbon	560Ω	1/4W	$\pm 5\%$	1	R520	RP2 2 2121 JT000	Pretty Carbon	2.2kΩ	1/8W	± 5%	1
R358	RD5 6 1251 JS000	Carbon	560Ω	1/4W	$\pm 5\%$	1	R521	RP4 7 2121 JT000	Pretty Carbon	4.7 k Ω	1/8W	± 5%	1
R359	RD5 6 1251 JS000	Carbon	560Ω	1/4W	±5%	1	R522	RP3 9 1121 JT000	Pretty Carbon	390Ω	1/8W	± 5%	1
R360	RD2 2 1251 JS000	Carbon	220Ω	1/4W	$\pm 5\%$	1	R523	RP1 0 4121 JT000	Pretty Carbon	100k Ω	1/8W	$\pm 5\%$	1
R361	RD8 2 1251 JS000	Carbon	820Ω	1/4W	±5%	1	R524	RP8 2 2121 JT000	Pretty Carbon	8.2kΩ	1/8W	± 5%	1
							R525	RP8 2 3121 JT000	Pretty Carbon	82kΩ	1/8W	± 5%	1
							R526	RP8 2 3121 JT000	Pretty Carbon	82k Ω	1/ 8 W	$\pm 5\%$	1
	MOTOR GOVER	RNOR P.C.B. AS	SY				R527	RP1 0 2121 JT000	Pretty Carbon	1kΩ	1/8W	$\pm 5\%$	1
PCB7	4 2869 70581	Motor Governor P.C.	B. Assy			1							
	4 2269 35870	PCB, Governor				1							
	4 2369 70740	RT Pin				2		BASE SWITCH	P.C.B. ASSY				
	141 2 4469 17200	Cushion				2	PCB8	141 0 3659 01200	Base Switch P.C	.B. Assy			1
	141 2 4729 05000	Staple, 5mm				3		4 2269 35910	PCB, Base Switc	h			1
S9	4 2319 73390	Slide Switch (Tape	Speed)			1	S11	4 2319 73610	Leaf Switch (FF/	REW)			1
P501	4 2229 73023	Potentiometer (B-3l	(Ω)			1							
P502	4 2229 73022	Potentiometer (B-2)	(Ω)			1							
L501	4 2539 70301	Micro Inductor (100	μH)			1		SWITCH/JACK	P.C.B. ASSY				
L502	4 2539 70911	Choke Coil (7µH)				1	PCB9	4 1329 77371	Switch/Jack P.C	.B. Assy			1
L503	4 2539 70911	Choke Coil $(7\mu H)$				1		4 2269 35900	PCB, Jack	•			1
TH501	204 5 9000 00650	Thermister, SDT 65				1	S7	4 2319 72640	Slide Switch (Be	at Cancel, Com	ipict)		1
D501	4 2029 71590	Diode, 1SS95				1	S8	4 2319 72640	Slide Switch (Be				1
D502	4 2029 71590	Diode, 1SS95				1	J7	4 2359 73601	2P Jack (LINE IN				1
0503	4 2029 71590	Diode, 1SS95				1	J8	4 2359 73601	2P Jack (LINE O				1
Q501	203 5 7200 60850	Transistor, 2SA 608	1			i I	C328	CM47 3500 K00SV	Mylar	0.047μF	5 O V	±10%	1
2502	203 5 5100 53660	Transistor, 2SC 536				i I	C329	CM6 8 2500 K00SV	Mylar	0.0068μF	-	±10%	1
2503	203 5 4570 73460	Transistor, 2SD 734				1 1	C336	CM1 2 3500 K00SV	Mylar	0.012µF		±10%	1
2504	203 5 5100 53660	Transistor, 2SC 536				11	C337	CM6 8 2500 K00SV	Mylar	0.012μF 0.0068μF		±10%	1
2505	203 5 5100 53660	Transistor, 2SC 536				' I	0001	01410 0 2000 KUU3V	wyiai	0.0000μ F	۷سان	± 10/0	'
2506	203 5 7200 60850	Transistor, 2SA 608				ľ	NOTE	:e.					
2507	203 5 5100 53660	Transistor, 2SC 536				1	NOTE		ontoin Madel	Alcombo	N.	umbas	
2508	203 5 5100 53660					1		rts order must co scription.	ontain Model	wumber, P	ant N	umber a	and
2509	203 5 5100 53660	Transistor, 2SC 536				1		dering quantity of	scrawe and	seietore	مر با	multine	a of
,	-00 0 0100 03000	Transistor, 2SC 536				1		pcs.	SOLEMS SIIU LE	ะอเซเบเซ เทน	3 00	murtiple	<i>5</i> UI
	7113 E E100 E0000	Transista: 000 C00											
2510 2511	203 5 5100 53660 4 2019 70010	Transistor, 2SC 536 Photo Transistor, ON				1 1		,					

IC & TRANSISTOR LEAD IDENTIFICATION





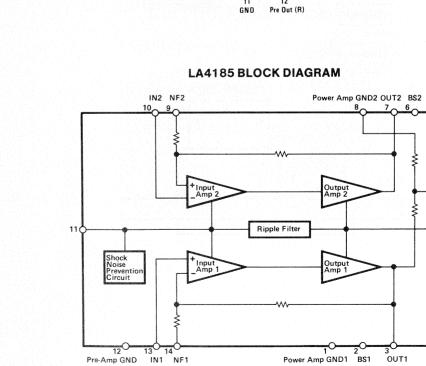


LB1416 BLOCK DIAGRAM

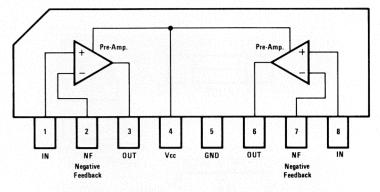
-39-

GND

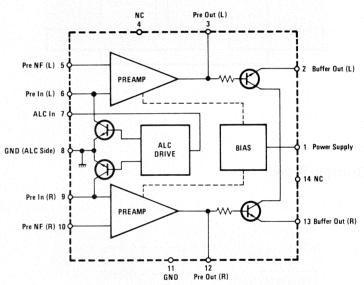




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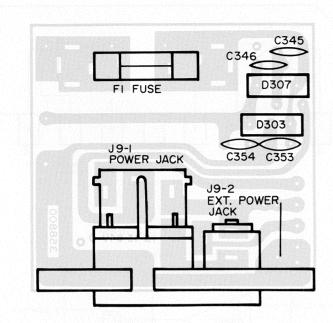


TA7658P BLOCK DIAGRAM

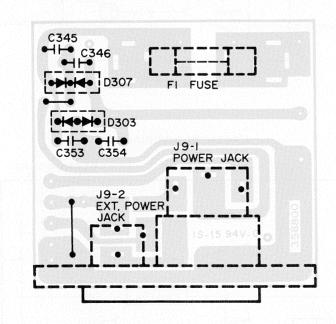


POWER SUPPLY P.C.BOARD

(Top View)

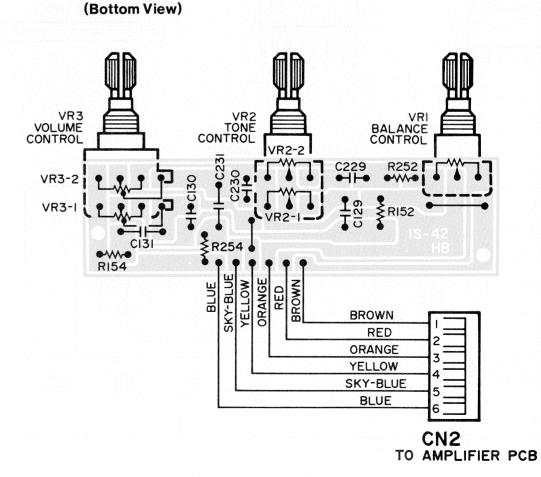


(Bottom View)



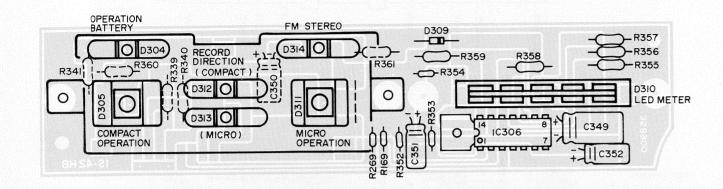
VOLUME CONTROL P.C.BOARD

MC-Service



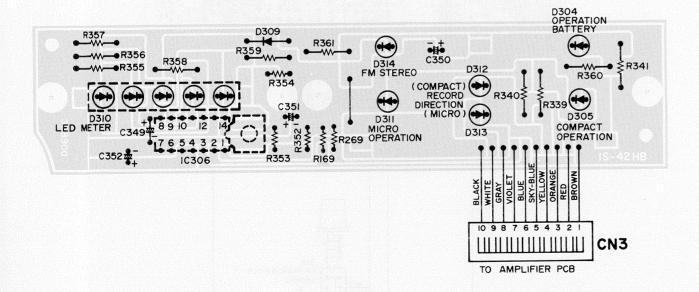
LED INDICATOR P.C.BOARD

(Top View)



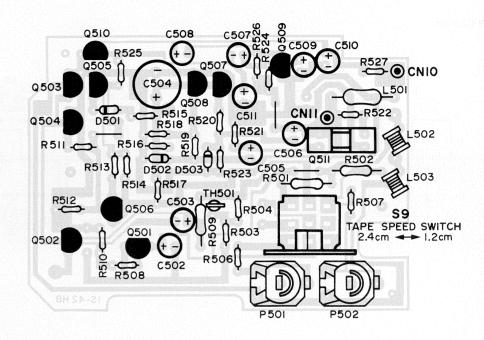
MC-Service

(Bottom View)

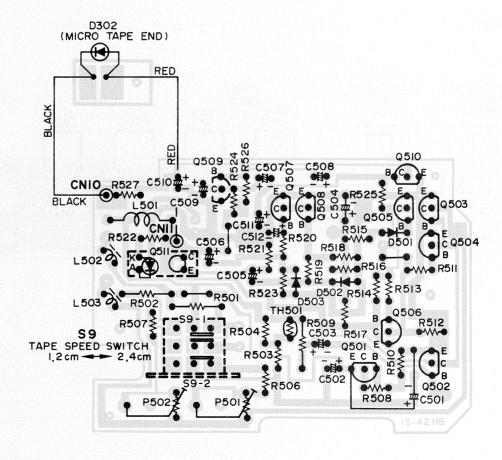


MOTOR GOVERNOR P.C. BOARD

(Top View)

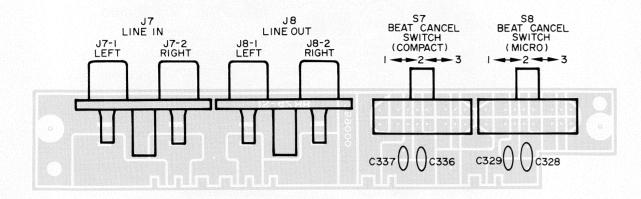


(Bottom View)



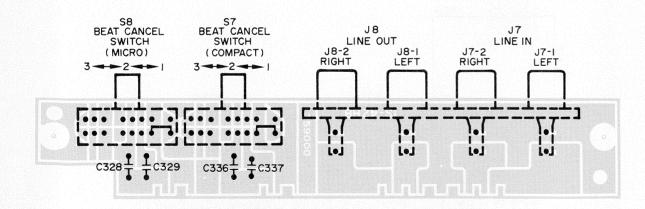
SWITCH/JACK P.C.BOARD

(Top View)



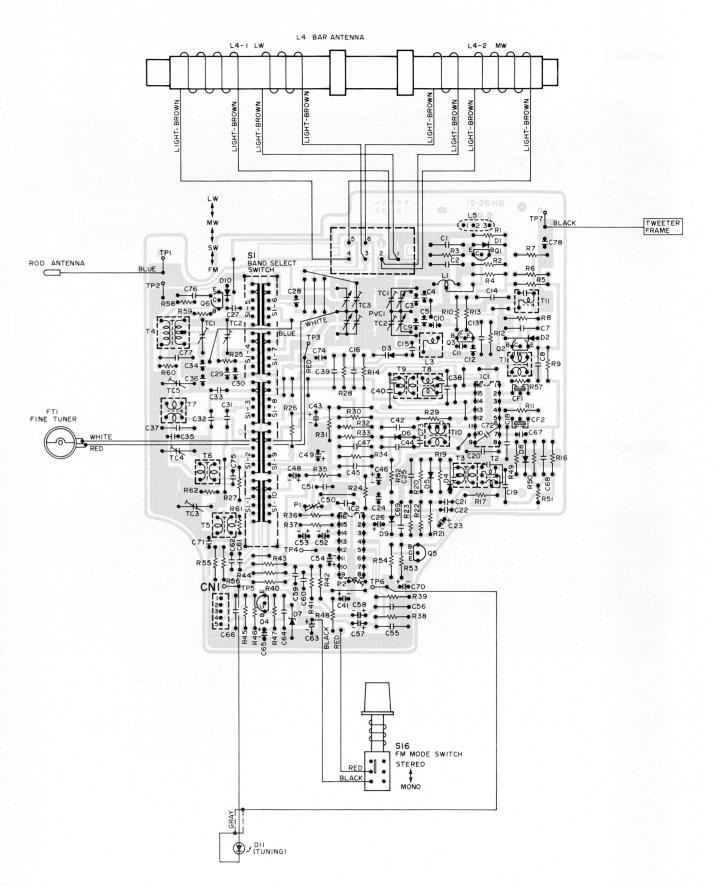
MC-Service

(Bottom View)

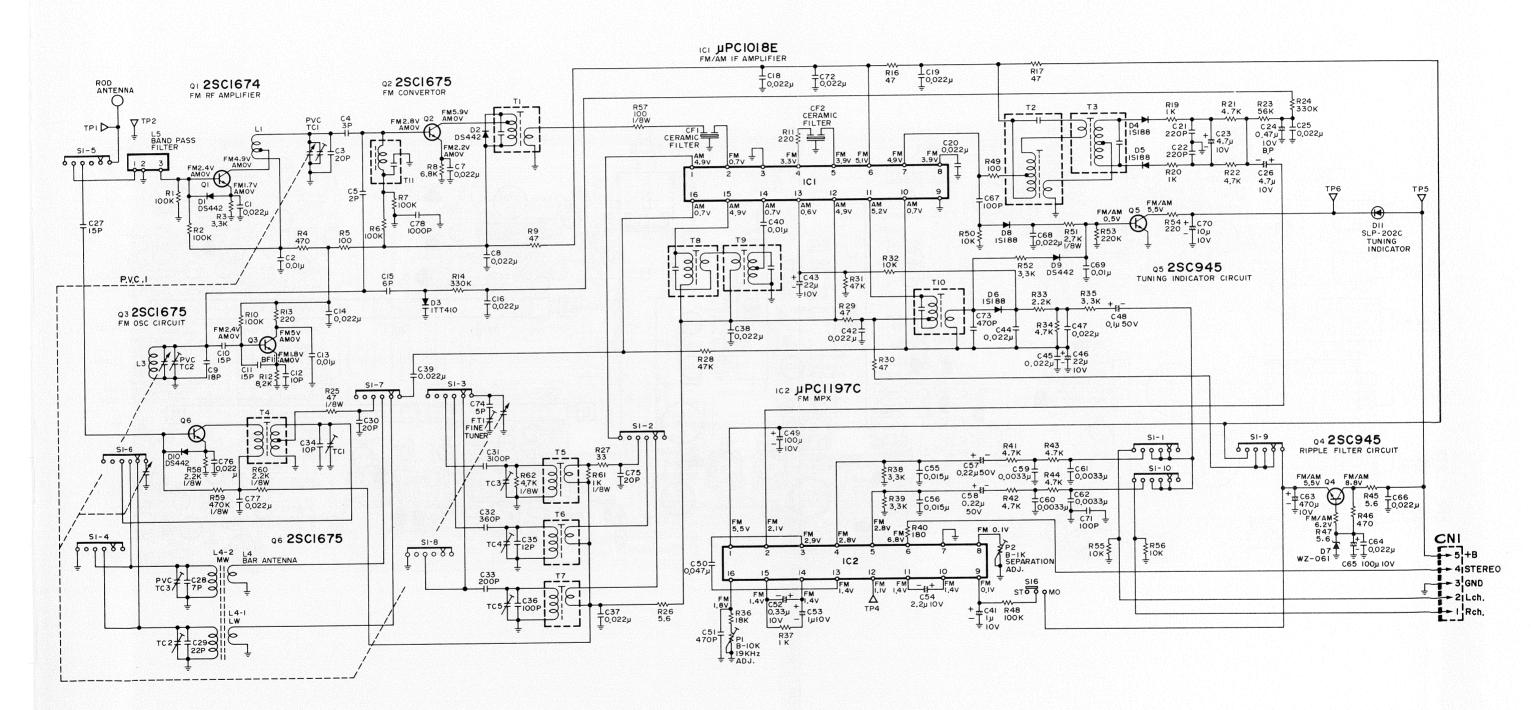


RADIO TUNER P.C. BOARD

(Bottom View)

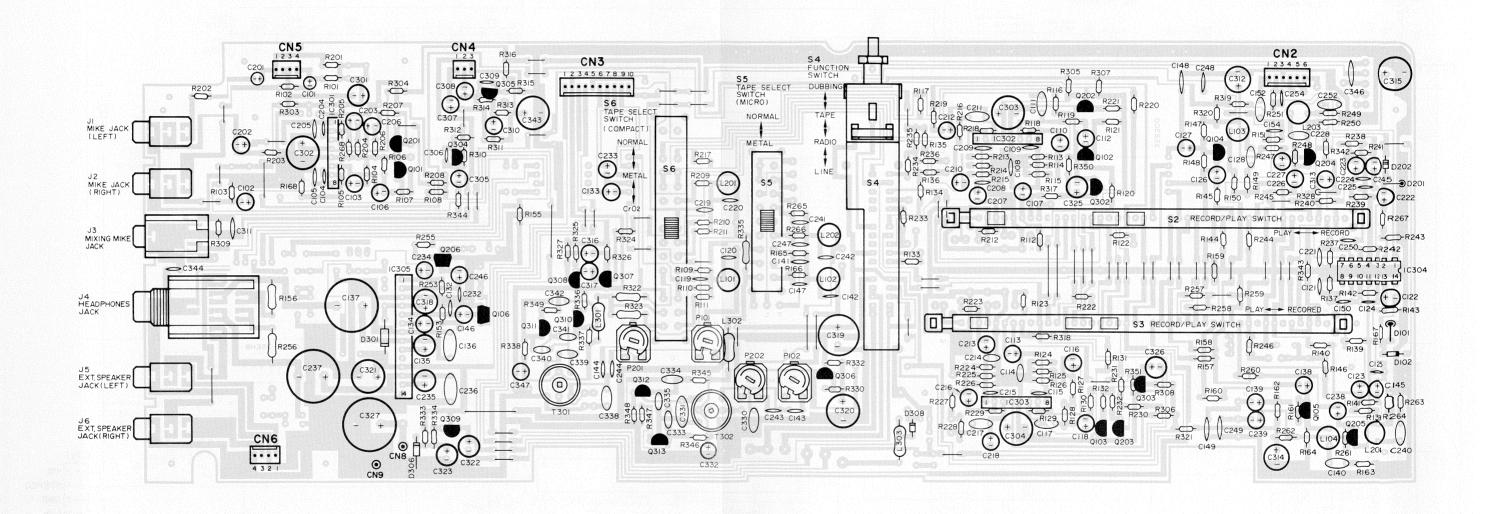


SCHEMATIC DIAGRAM (Tuner)

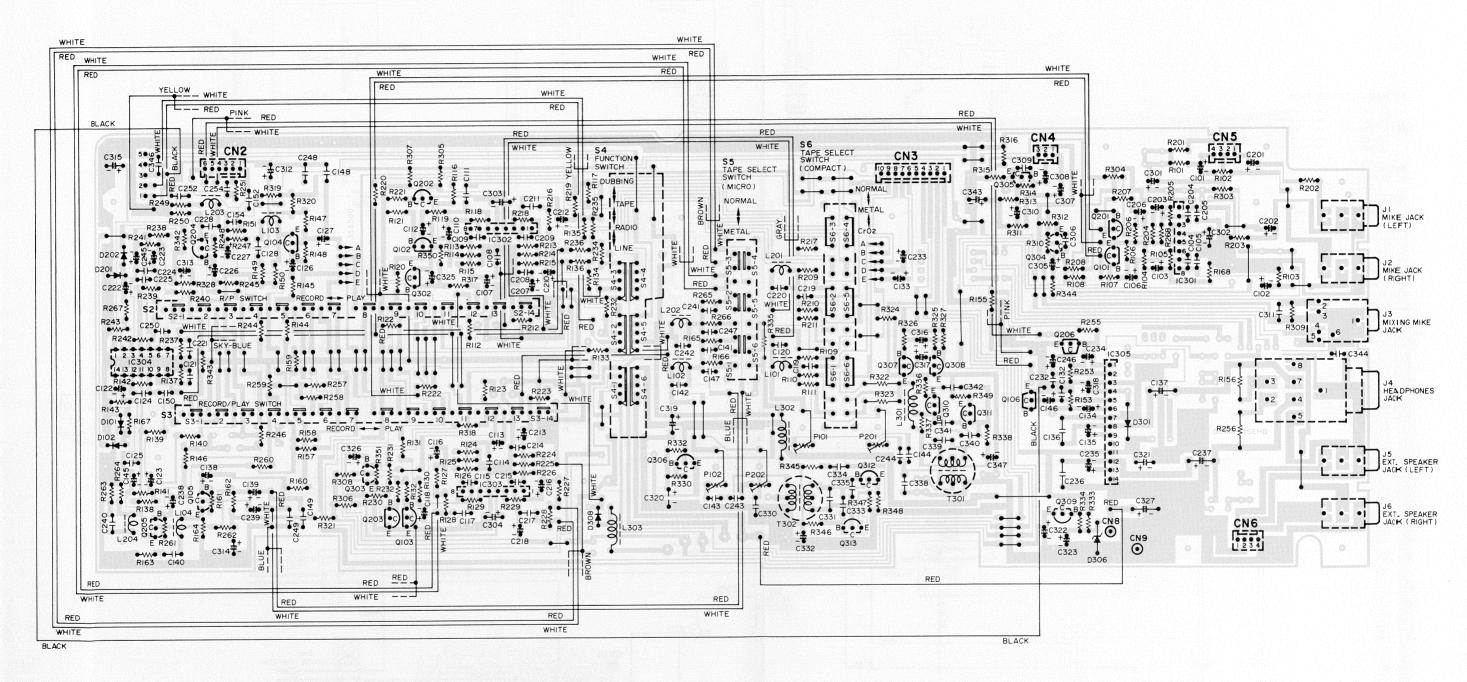


MC-Service

AMPLIFIER P.C.BOARD (Top View)

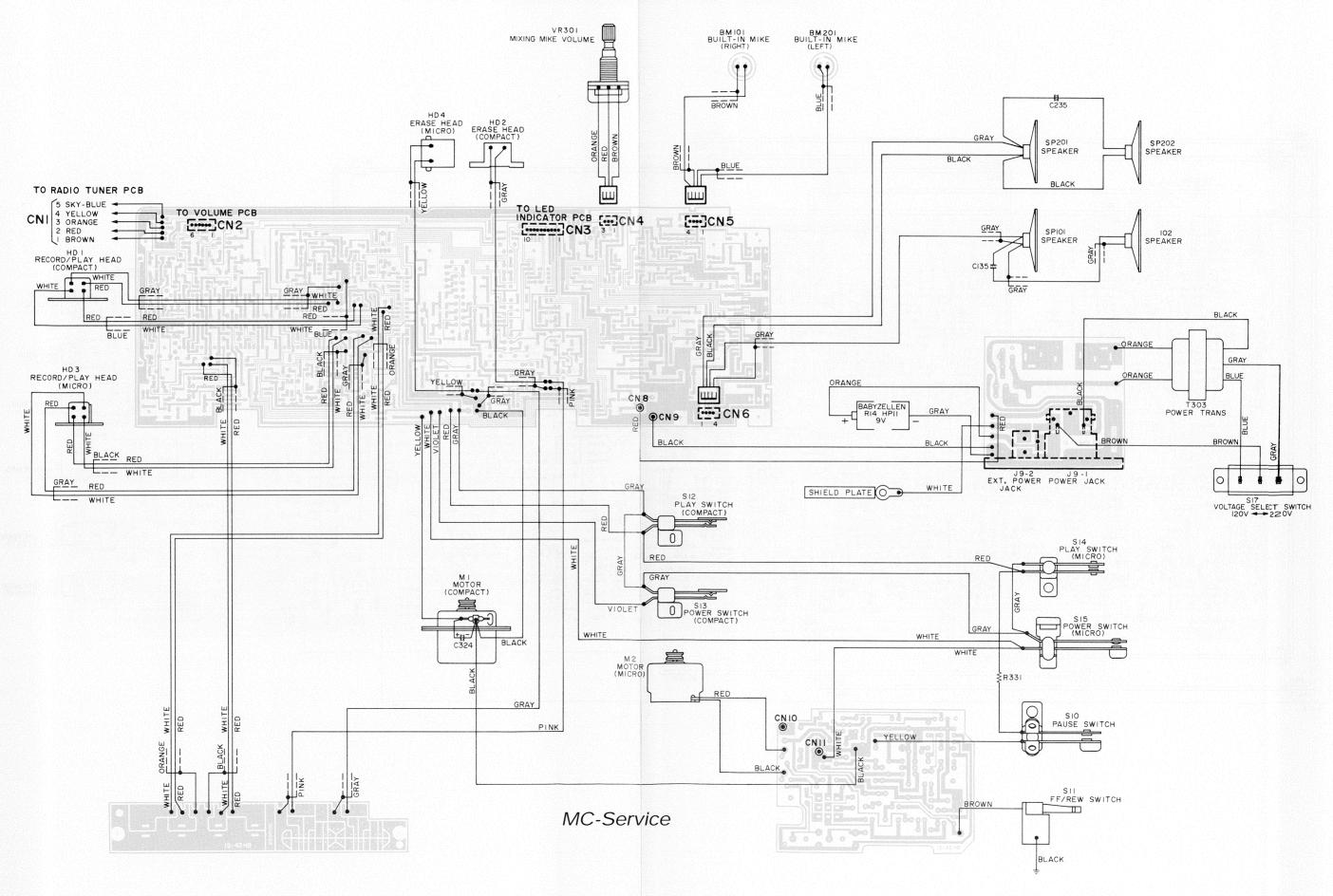


AMPLIFIER P.C.BOARD (Bottom View)

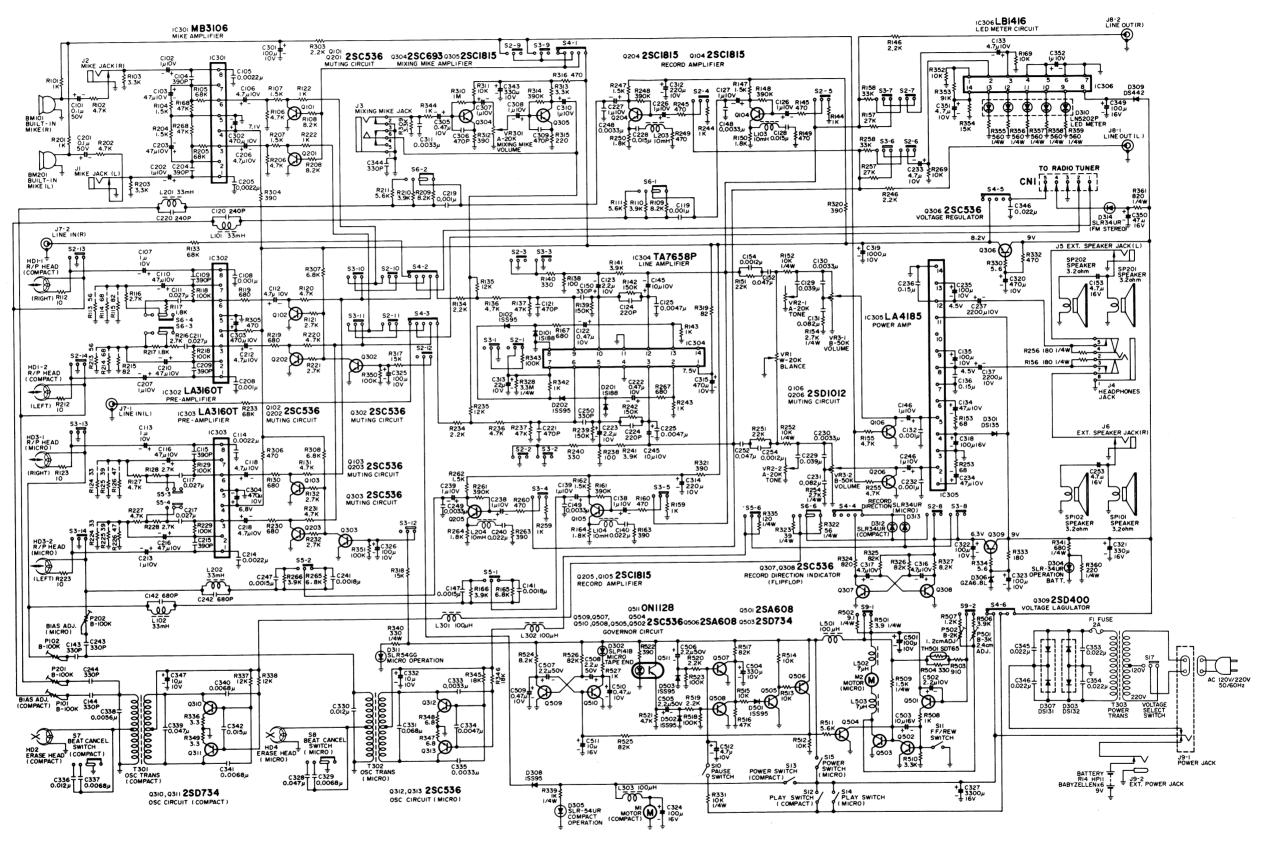


MC-Service

WIRING DIAGRAM (Amplifier)



SCHEMATIC DIAGRAM (Amplifier)



No.	Name	Position	No.	Name	Position	No.	Name	Position
S1 S2 S3 S4	Band Select Switch Record/Playback Switch (Compact) Record/Playback Switch (Micro) Function Switch	AM PLAY PLAY LINE NORMAL	S7 S8 S9 S10	Beat Cancel Switch (Compact) Beat Cancel Switch (Micro) Tape Speed Switch Pause Switch FF/REW Switch	1 1 2.4cm OFF OFF	S15	Power Switch (Compact) Play Switch (Micro) Power Switch (Micro) FM Mode Switch	OFF OFF OFF STEREO 220V
S5 S6	Tape Select Switch (Compact) Tape Select Switch (Micro)	NORMAL			OFF	317	Voltage Select Switch	2200